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UNIVERSITY OF ILLINOIS CIRCULAR

COLLEGE OF DENTISTRY

Announcement for 1939-1940



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UNIVERSITY OF ILLINOIS

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COLLEGE CALENDAR

1939

First Semester

Sept. 18-23, Monday-Saturday.....Special examinations.
Sept. 25, Monday, 8 A.M. to 5 P.M.....Registration and payment of fees.
Sept. 26, Tuesday, 8 A.M.Instruction begins.
Nov. 30, Thursday.....Thanksgiving Day.
Dec. 16, Saturday, 5 P.M.Holiday recess begins.

1940

Jan. 2, Tuesday, 8 A.M.Holiday recess ends.
Jan. 25, Thursday.....Examinations begin.

Second Semester

Feb. 5, Monday, 8 A.M. to 5 P.M.....Registration and payment of fees
Feb. 6, Tuesday, 8 A.M.Instruction begins.
March 21, Thursday, 5 P.M.Easter recess begins.
March 25, Monday, 8 A.M.Easter recess ends.
May 20, Monday.....Examinations begin.
May 30, Thursday.....Memorial Day.
June 5, Wednesday.....Class day and alumni meeting.
June 7, Friday.....Commencement exercises.

Summer Session

June 10-11, Monday-Tuesday.....Registration days for first half of
Summer Session.
July 29-30, Monday-Tuesday.....Registration days for second half of
Summer Session.
Sept. 21, Saturday.....Summer Session ends.

UNIVERSITY OF ILLINOIS
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Student Council.—R. G. KESEL (Chairman), NELL S. TALBOT (Secretary), I. SCHOUR.

FACULTY OF THE COLLEGE OF DENTISTRY

1938-1939

Professors

FREDERICK BOGUE NOYES, A.B., D.D.S., D.Sc., LL.D., *Professor of Orthodontia, Director of the Children's Clinic, and Dean of the College of Dentistry*

DONALD MACKAY GALLIE, D.D.S., *Professor of Clinical Operative Dentistry, Emeritus*

FREDERICK BROWN MOOREHEAD, D.D.S., M.D., M.S., *Professor of Oral Surgery and Head of the Department of Oral and Plastic Surgery and Oral Pathology*

GEORGE WALTER DITTMAR, D.D.S., *Professor of Clinical Prosthetic Dentistry and Head of the Department of Prosthetic Dentistry*

DAVID JOHN DAVIS, M.D., Ph.D., *Professor of Pathology, Head of the Department of Pathology, Bacteriology, and Public Health, and Dean of the College of Medicine*

LOUIS SCHULTZ, D.D.S., M.D., *Professor of Oral Surgery and Pathology, Emeritus*

JULIUS HAYES HESS, M.D., *Professor of Pediatrics and Head of the Department in the College of Medicine*

HUGH ALISTER MCGUIGAN, Ph.D., M.D., *Professor of Pharmacology, Materia Medica, and Therapeutics and Head of the Department in the College of Medicine*

WILLIAM HENRY WELKER, A.C., Ph.D., *Professor of Physiological Chemistry and Head of the Department of Chemistry and Metallurgy*

FRANCIS EUGENE SENEAR, B.S., M.D., *Professor of Dermatology and Head of the Department in the College of Medicine*

WILLIAM F. PETERSEN, B.S., M.D., *Professor of Pathology*

ADOLPH HARTUNG, M.D., *Professor of Roentgenology*

ALBERT BACHEM, Ph.D., *Professor of Biophysics*

OTTO FREDERIC KAMPMEIER, Ph.D., M.D., *Professor of Anatomy and Head of the Department*

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LLOYD ARNOLD, A.M., M.D., *Professor of Bacteriology and Public Health*

ALLAN GIBSON BRODIE, D.D.S., M.S., *Professor of Orthodontia and Head of the Department*

JOHN SANFORD KELLOGG, D.D.S., *Professor of Prosthetic Dentistry*

WACLAW HOWARD KUBACKI, D.D.S., *Professor of Prosthetic Dentistry*

STANLEY DANIEL TYLMAN, D.D.S., M.S., *Professor of Prosthetic Dentistry*

ERNST GELLHORN, M.D., Ph.D., *Professor of Physiology*

WALTER JOHN RICHARD CAMP, M.D., Ph.D., *Professor of Pharmacology, Materia Medica, and Therapeutics*

ISAAC SCHOUR, D.D.S., Ph.D., *Professor of Histology and Head of the Department*

GEORGE E. WAKERLIN, Ph.D., M.D., *Professor of Physiology and Head of the Department*

Associate Professors

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ISADORE PILOT, B.S., M.D., *Associate Professor of Medicine and of Pathology*

SAMUEL AZOR LEVINSON, M.S., M.D., *Associate Professor of Pathology, Assistant Professor of Medicine, and Director of the Hospital Laboratory*

ALEXANDER JOHN NEDZEL, M.D., M.S., *Associate Professor of Pathology, Bacteriology, and Public Health*

CARLOS ISAAC REED, Ph.D., *Associate Professor of Physiology*
GERHARDT VON BONIN, M.D., *Associate Professor of Anatomy*

Assistant Professors

ROBERT LELON LADD, M.S., M.D., *Assistant Professor of Oral Pathology*
ROBERT GEORGE KESEL, D.D.S., M.S., *Assistant Professor of Dental Pathology and Therapeutics and Acting Head of the Department*
ARTHUR GIDEON COLE, Ph.D., *Assistant Professor of Physiological Chemistry*
MRS. NELL SNOW TALBOT,¹ A.M., *Assistant Professor of Medical and Dental History, and Assistant to the Dean of the College of Dentistry*
YNGVE JORANSON, A.B., B.S., M.D., *Assistant Professor of Anatomy*
GEORGE MILLES, Ph.G., M.S., M.D., *Assistant Professor of Pathology*
ELSIE GERLACH, D.D.S., *Assistant Professor of Operative Dentistry and Superintendent of the Children's Clinic*
EDWARD JOHN KREJCI, D.D.S., *Assistant Professor of Operative Dentistry, and Examiner in the Infirmary*
GUSTAV LEOPOLD ZECHEL, M.D., *Assistant Professor of Anatomy, and Associate in Surgery*
LOUIS WILLIAM SCHULTZ, B.S., D.D.S., M.D., *Assistant Professor of Oral Surgery*
WILLIAM BENHAM DOWNS, D.D.S., M.S., *Assistant Professor of Orthodontia*
SUMTER SMITH ARNIM, D.D.S., Ph.D., *Assistant Professor of Operative Dentistry and Acting Head of the Department*
WALTER WILLIAM DALITSCH, B.S., D.D.S., M.D., *Assistant Professor of Medicine and Health Officer*
PAUL LEON EWING, Ph.D., *Assistant Professor of Pharmacology, Materia Medica, and Therapeutics*
FRANK FOLBERT KANTHAK, B.S., D.D.S., M.D., *Assistant Professor of Oral Surgery and Oral Pathology and Superintendent of the Clinics*
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I. PAT BRONSTEIN, B.S., M.D., *Assistant Professor of Pediatrics*

Associates

EDWARD CHARLES WACH, Ph.G., D.D.S., M.S., *Associate in Dental Pathology and Therapeutics*
ELI OLECH, D.D.S., M.S., *Associate in Oral Surgery*
KERMIT FREDERICK KNUDTZON, D.D.S., *Associate in the Infirmary*
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HENRY JOHN DROBA, D.D.S., *Associate in Oral Surgery*
PAUL LILJA LANE, B.S., D.D.S., *Associate in the Infirmary*
CHARLES MATHEW BUCKMAN, D.D.S., *Associate in Operative Dentistry*
BEULAH GRATTAN NELSON, D.D.S., M.S., *Associate in the Children's Clinic*
CLARENCE A. JOHNSON, Ph.D., *Associate in Physiological Chemistry*
MARGARITA ULLOA, B.S., D.D.S., *Associate in Operative Dentistry*
MAYNARD KIPLINGER HINE, D.D.S., M.S., *Associate in Dental Pathology and Therapeutics*
FRED NORMAN BAZOLA, D.D.S., *Associate in Prosthetic Dentistry*
RAYMOND CLIFFORD INGRAHAM, Ph.D., *Associate in Physiology*
MARCUS RAYNER CARO, B.S., M.D., *Associate in Dermatology*

¹On leave of absence for 1938-1939.

HERBERT RATTNER, M.D., *Associate in Dermatology*
CHESTER WILLIAM DARROW, Ph.D., *Associate in Physiology*
HAROLD CARL STRUCK, Ph.D., *Associate in Physiology*

Lecturers

BENJAMIN WHAM, A.B., J.D., *Lecturer in Dental Jurisprudence*

Instructors

ANITA MARIE ELLINGSON, R.N., Ph.B., *Instructor in Dental Pathology and Therapeutics*

ANNA RIEKE, A.B., R.N., *Instructor in Oral Surgery*

EDGAR HERMAN ARTHUR KRAMP, D.D.S., M.S., *Instructor in Dental Pathology and Therapeutics*

ERNEST W. MYER, D.D.S., M.S., *Instructor in Orthodontia*

HENRY FRANCIS ANDREE, D.D.S., *Instructor in the Infirmary*

FORREST A. DANN, D.D.S., *Instructor in the Infirmary*

EARL WILEY RENFROE, D.D.S., *Instructor in the Infirmary*

MAX ELEAGER FISCH, M.S., M.D., *Instructor in Anatomy*

ABRAHAM GOLDSTEIN, D.D.S., M.S., *Instructor in Orthodontia*

JOSEPH WILLIAM GORDON, D.D.S., *Instructor in Oral Surgery*

ARTHUR LOUIS ALBAN, D.D.S., *Instructor in Oral Surgery*

FRANK CARL FABIAN, D.D.S., *Instructor in Oral Surgery*

FRANK CHARLES BESIC, D.D.S., *Instructor in Operative Dentistry*

MARSHALL FREDERICK GRUNWALD, D.D.S., M.S., *Instructor in Dental Pathology and Therapeutics*

MILO BERNHARDT HATTENHAUER, D.D.S., *Instructor in Prosthetic Dentistry*

DAVID BERMAN, B.S., D.D.S., *Instructor in Dental Pathology and Therapeutics*

JOHN A. HIGGINS, D.D.S., *Instructor in Pharmacology, Materia Medica, and Therapeutics*

IRVING ELIHU STECK, M.S. M.D., *Instructor in Physiology*

DAVID MINARD, Ph.D., *Instructor in Physiology*

FRANCES AGNES BRIGGS, Ph.D., *Instructor in Physiological Chemistry*

BRODA OTTO BARNES, Ph.D., M.D., *Instructor in Physiology*

Assistants

CECIL CLAUDE HARVEY, Ph.D., *Assistant in Physiological Chemistry*

MRS. ELEANOR SCHLOSSER KING, D.H., *Assistant in Prosthetic Dentistry*

LEONARD GELFAND, B.S., D.D.S., *Assistant in Histology*

ROBERT DANE CURTIS, B.S., D.D.S., *Assistant in Prosthetic Dentistry*

WILLIAM FRANKLIN DENNEMAN, B.S., D.D.S., *Assistant in the Infirmary*

KENNETH PALMER SHARPE, B.S., D.D.S., *Assistant in Dental Pathology and Therapeutics*

REUBEN ARTHUR LARSEN, D.D.S., *Assistant in Prosthetic Dentistry*

SUREN MANOOG SERON, B.S., D.D.S., *Assistant in Oral Surgery*

MURRAY MITCHELL HOFFMAN, M.S., D.D.S., *Research Assistant in Histology*

CASIMIR SNIARSKI, D.D.S., *Assistant in Prosthetic Dentistry*

JOHN MONROE SPENCE, D.D.S., M.S., *Research Assistant in Histology*

CHESTER FREDERICK ANDERSON, B.S., D.D.S., *Assistant in Prosthetic Dentistry*

MRS. MAY G. GREENAWAY, R.N., *Assistant in the Children's Clinic*

FRED HERZBERG, M.S., D.D.S., *Research Assistant in Histology*
CLARENCE WYLAND HANSEN, D.D.S., *Assistant in Dental Pathology and Therapeutics*
ARTHUR VALENTINE BERGQUIST, B.S., M.D., *Assistant in Anatomy*
JACOB ABRAHAM GLASSMAN, B.S., M.D., *Assistant in Anatomy*
ARTHUR DEO KLEIN, B.S., *Assistant in Physiology*
FRANCIS LEO CONDREN, D.D.S., *Assistant in the Infirmary*
CECIL WALDEMAR FORSLUND, D.D.S., *Assistant in the Infirmary*
PAUL BOSTIAN, A.B., D.D.S., *Assistant in Prosthetic Dentistry and in the Children's Clinic*
VICTOR HUGO DIETZ, B.S., D.D.S., *Assistant in Operative Dentistry*
WILLIAM JOSEPH GIBBS, B.S., D.D.S., *Assistant in Prosthetic Dentistry*
SEYMOUR J. KRESHOVER, A.B., D.D.S., *Assistant in Operative Dentistry*
ALFRED N. MORTENSEN, D.D.S., *Assistant in Prosthetic Dentistry*
BERNARD CARL RADDE, A.B., D.D.S., B.S., *Assistant in Prosthetic Dentistry*
ROBERT MARSHALL STEPHAN, D.D.S., M.S., *Assistant in Operative Dentistry*
JOSEPH PETER WEINMANN, M.D., *Assistant in Operative Dentistry*
EDWARD HARRY RAGAN, B.S., D.D.S., *Assistant in Prosthetic Dentistry*
BERNARD GEORGE SARNAT, B.S., M.D., *Assistant in Histology*
FRANK JOSEPH KOS, B.S., D.D.S., *Assistant in Operative Dentistry*
JAMES KELLOGG BETTY,¹ D.D.S., M.S., *Assistant in Operative Dentistry*
PHILIP BLICKENDORFER, Ph.D., *Assistant in Pharmacology, Materia Medica, and Therapeutics*

Artists

MRS. NELLIE MORGAN FRAIN, *Artist in Dental Illustration*

Technicians

FRANCES B. SCHWAB, *Technician in Histology*
GUSTAVE SWANSON, *Technician in the Infirmary*
STANLEY GREGORY MOORE, *Technician in Bacteriology and Public Health*
MRS. HILDA PAULSEN, *Technician in Bacteriology and Public Health*
OCIE ROMEY BURNS, Ph.G., *Technician in Physiological Chemistry*
GEORGE H. MILLER, *Technician in Anatomy*
EDNA MARGARET ANDERSON, *Technician in Roentgenology*
MRS. MINA RAE MORFORD BOHAN, *Technician in Orthodontia and in Oral Pathology*
VIRGINIA LORETTA STONER, *Technician in Dental Pathology and Therapeutics*
BESS HELEN FAUST, A.B., *Technician in Orthodontia*
MRS. LAURETTA MALONEY HUBER,² *Technician in Roentgenology and in Prosthetic Dentistry*
EMIL MATT, *Technician in Histology*
ESTHER APPLEBAUM, D.H., *Technician in Prosthetic Dentistry*

¹Beginning February 1, 1939.

²Resignation effective November 1, 1938.

THE COLLEGE OF DENTISTRY

Location

The College of Dentistry is located in the newly completed second unit of the Medical and Dental College Laboratories Building at 808 South Wood Street. It is adjoined by the Research and Educational Hospital on the south and by the Research and Library Building on the west. The facilities of the College of Medicine are available to students in the College of Dentistry, as the colleges are allied and the faculties are associated.

Buildings

The new building houses the administrative department of the College of Dentistry, the technical departments, and all dental clinics as well as the departments of Dental Histology, Oral Pathology, Bacteriology, and Pathology. The departments of other fundamental sciences are housed in the first unit of the Laboratories Building which adjoins the second unit.

Both buildings contain extensive laboratory space for class work and research, operative room for the several clinics, amphitheatres for autopsies, surgery, general assemblies, classes, and student activities, and recreation and lounge rooms for women and for men. The proximity of the hospital and the library as well as that of the College of Medicine contributes much to the cooperation established between the two colleges and to the development of medicine and dentistry in the relation which makes for better health service on the part of both.

Infirmaries

Since a large part of the third and fourth years is devoted to the supervised practice of dentistry by students, ample clinical space is provided on the fourth, fifth, sixth, seventh, eighth, ninth, twelfth, and thirteenth floors. Instead of placing all departments in one large infirmary, each clinical department has its infirmary on its own floor. This makes possible more satisfactory lighting for each chair, and greater efficiency in teaching than was possible under the plan of one large infirmary. The clinical equipment has been especially designed and is modern in character throughout.

Library

The Medical and Dental Library, centrally located on the first floor of the Medical and Dental College Laboratories Building, contains a comprehensive collection of standard and modern works on dental, medical, and allied subjects. Over 50,000 volumes of books and bound periodicals are available to faculty members and students of the Colleges of Dentistry and Medicine, and to practising dentists and physicians for reference use. Approximately 600 of the most important dental and medical periodicals are received currently. The Library has two reading rooms which seat 215 persons. It is open from 8:30 A.M. to 10:00 P.M. Monday through Friday, and from 8:30 A.M. to 5:00 P.M. Saturday. The closing hour in summer is 5:00 P.M. during the week, and 12:00 M. Saturday.

General Plan of Instruction

The course of instruction leading to the degree of Doctor of Dental Surgery is based on sixty hours of credit earned in an accredited college of liberal arts and sciences. Sixty hours are required in order that the student may have the background and training which will enable him intelligently to enter upon and complete a comprehensive course in dentistry. The advance of knowledge in both medicine and dentistry during the last few years has made necessary many changes in the dental curriculum

in order that students may be prepared to practice a profession which is an integral part of health service. The new responsibilities imposed on the profession by the recognition of the systemic relations and implications of oral disease demand of the practitioner a knowledge of the fundamental sciences which cannot be acquired without at least two years of thorough and systematic preparation.

The inclusion of physics and organic chemistry in the pre-dental course releases more hours during the first two years of the dental course for the biological sciences, and during the last two years for medical subjects necessary to enable the student to grasp the systemic connections of oral disease, and to incorporate this conception in the practice of dentistry.

The first two years of the curriculum include courses in physiological chemistry, anatomy, histology, physiology, bacteriology, and pathology presented by members of the staff of the College of Medicine. At the same time instruction in dental technique is given with emphasis on the comprehension of principles rather than on the number of technical units completed.

Actual clinical practice is continuous throughout the third and fourth years, accompanied by courses in diagnosis and medicine which enable the student to correlate oral and systemic disease. The inclusion in entrance requirements of so much fundamental science and the compression of hours of technique leave more time available for clinical practice.

During the third year the student is admitted to the infirmary and begins clinical operations on patients; in the fourth year the emphasis is on diagnosis, with due consideration of systemic involvements, and on the management of the patient by the student from the time the patient enters the diagnostic clinic until he is discharged from the infirmary.

Each year more hospitals are establishing dental internships. Graduates of the College of Dentistry are urged to take advantage of these opportunities for gaining experience before entering upon private practice, and every effort is made to assist graduates in securing such positions.

Requirements for Admission

Applications for admission may be made to the Dean of the College of Dentistry or to the Examiner and Recorder. Credentials covering all college and high school work must be submitted from each institution attended. Women are admitted on the same terms as men. For admission to the College of Dentistry, each candidate must present satisfactory evidence of six years of work as follows:

1. Four years of work in an accredited high school or the equivalent, comprising not fewer than fifteen units in acceptable subjects, including prescribed subjects as follows:

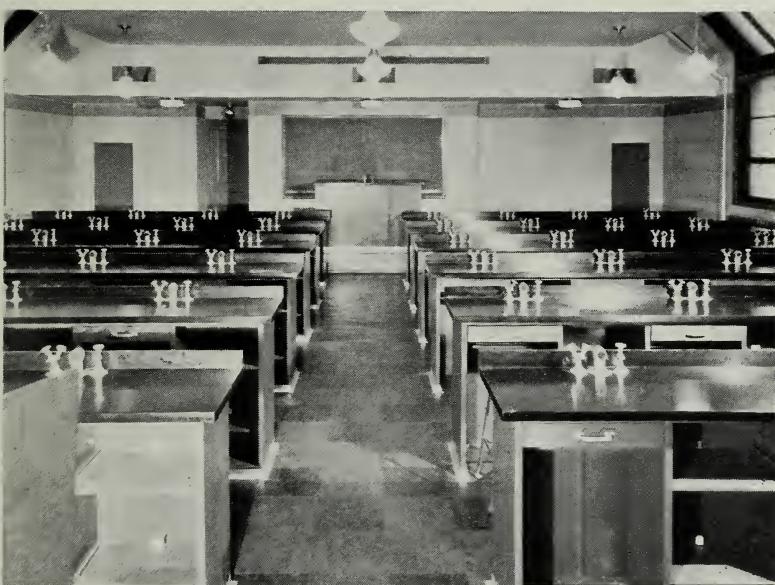
	UNITS ¹
English.....	3
Algebra.....	1
Plane geometry.....	1
Laboratory science.....	1
Electives (not more than four units of non-academic subjects).....	9
<i>Total.....</i>	<i>15</i>

2. Two years of work in an approved college of liberal arts and sciences, comprising not fewer than sixty semester hours, and including prescribed subjects as follows:

¹A unit is the amount of work represented by the pursuit of one high school subject, with the equivalent of five forty-minute recitations a week, through 36 weeks; or, in other words, the work of 180 recitation periods of forty minutes each, or the equivalent in laboratory or other practice.



THE OPERATIVE INFIRMARY



ONE OF THE TECHNICAL LABORATORIES



SECOND UNIT OF MEDICAL AND DENTAL COLLEGE
LABORATORIES BUILDING

	SEMESTER HOURS ¹
Chemistry (including four hours of organic chemistry).....	12
Physics.....	6
Biology.....	6
English.....	6
Electives (excluding military, hygiene, and physical education).....	30
<i>Total</i>	60

Credits of students who wish to be candidates for the degree of Bachelor of Science upon the completion of the second year in the College of Dentistry should be distributed as follows:

	SEMESTER HOURS ¹
Chemistry (including four hours of organic chemistry).....	12
Physics.....	6
Biology.....	8
English.....	6
German, French, Spanish, or Italian.....	6
Electives (excluding chemistry, physics, and biology).....	6
Free Electives.....	16
<i>Total</i>	60

As the function of the pre-dental years is to supply a general background for the student as well as specific training in the fundamental concepts of the sciences, it is recommended that the elective hours include history, economics, sociology, philosophy, and at least one modern language.

The enrollment in the first-year class is limited, and each applicant who is accepted is required to make a deposit of \$15.00 within two weeks of the date of notification that he will be admitted.

Note.—No student at Urbana will be permitted to transfer his registration to the College of Dentistry while his record shows a deficiency in any of the subjects which, as general requirements of the University, are a part of his curriculum.

A person whose record at some other institution comes within either of the following classifications may enter the University only on approval of the dean of the college concerned and under conditions imposed by him: (1) A person dropped from another institution for poor scholarship or for disciplinary reasons. (In the latter case he must also obtain approval of the University Senate Committee on Discipline.) (2) A person whose record shows as much as fifty per cent (or more than twenty-five hours) of unsatisfactory work, i.e., unremoved failures and credits earned with a grade equivalent to the lowest passing grade in the University of Illinois.

Admission to Advanced Standing

Students who meet the requirements for admission to the University of Illinois and who have studied dentistry for not less than one year in any college accredited to the University of Illinois, may be admitted to advanced standing. Such students, however, will be required to comply with all the conditions of the curriculum of the College of Dentistry.

Graduates of colleges of medicine accredited to the University of Illinois may be admitted to the College of Dentistry and given credit for one year in time and for all satisfactorily completed courses which are required by the College.

Students presenting sufficient credits applicable to the first-year curriculum in

¹By a *semester hour* is meant the work of a class meeting one hour each week for a semester of 18 weeks. Sixty semester hours represent ordinarily two years of college work.

addition to those required for entrance may enter at the beginning of the second semester of the first year.

Students holding credits other than those listed above should communicate with the Dean for further information.

A letter of honorable dismissal and a transcript of record are required of any applicant who has previously attended a dental school.

Credentials which are accepted towards admission to the University become the property of the University and are kept permanently in the files.

Admission of Unclassified Students

A person twenty-one years of age or over, who has met the requirements for admission as determined in the usual way by the Registrar, or who is a graduate of a recognized College of Dentistry, may be admitted, on approval of the Dean, as an unclassified student, to take a partial schedule of work. Fees are prorated in proportion to the amount of work taken.

Requirements for Graduation

For the Degree of Bachelor of Science.—A student must have completed all the courses of the first two years in the College of Dentistry with a grade of "C" or better in at least three-fourths of the work. (Hours of entrance credit must be distributed as indicated on page 13.)

For the Degree of Doctor of Dental Surgery.—A student must have completed the work of the curriculum with a grade of "C" or better in at least three-fourths of the work leading to the degree. (See page 32.)

Significance of Grades.—The literal system of grading is used, and "D" is the passing grade. Where it is necessary to translate percentage to literal grades, or vice versa, the following values are used: "A," 92 to 100%; "B," 85 to 91%; "C," 75 to 84%; "D," 70 to 74%. For calculating averages, the point system is used, with values as follows: "A" equals 5; "B," 4; "C," 3; "D," 2.

Graduation with Honors.—A student who complies with the requirements for graduation and who attains in all work presented for the degree, the average grade specified below, may be recommended by the University Senate for the honors stated: for an average grade of not less than 4.35, graduation with honors; for an average grade of not less than 4.75, graduation with high honors. The honors conferred shall be noted upon the diploma and the Commencement program.

Omicron Kappa Upsilon

A chapter of Omicron Kappa Upsilon, a national honorary dental fraternity, was organized in the College of Dentistry in 1928. Dental students who on completion of their dental course have a grade of scholarship ranking them in the highest twelve per cent of their class are eligible for membership.

Special Courses for Dentists

The following special courses, each of which continues four weeks, are offered at the College of Dentistry during the year to legally qualified practitioners: ceramics; crowns and fixed partial dentures; full dentures and removable partial dentures; histology; operative dentistry; oral surgery; and therapeutics. Descriptions of these courses appear in this circular under the various departments.

Summer Courses

Summer courses are available to third-year and fourth-year students in clinical practice, including operative dentistry, prosthetic dentistry, therapeutics, and oral surgery. Students may receive credits applying on either third-year or fourth-year infirmary requirements. Dates for registration for summer courses are shown in the calendar on page 4.

Fees¹

Matriculation Fee.—Each student not holding a scholarship, on satisfying the requirements for admission to the University, pays the matriculation fee of \$10.00.

Tuition and Laboratory Fees.—Residents of Illinois pay tuition and laboratory fees as follows:

	FIRST YEAR		SECOND YEAR ²		THIRD YEAR		FOURTH YEAR ²	
	1st Sem.	2nd Sem.	1st Sem.	2nd Sem.	1st Sem.	2nd Sem.	1st Sem.	2nd Sem.
Tuition.....	\$75.00	\$75.00	\$75.00	\$75.00	\$75.00	\$75.00	\$75.00	\$75.00
Laboratory.....	41.50	38.50	47.50	62.00	43.00	54.00	51.00	50.00
	\$116.50	\$113.50	\$122.50	\$137.00	\$118.00	\$129.00	\$126.00	\$125.00

For non-residents of Illinois, the tuition fee is \$37.50 a semester more than the amounts shown above.

Note: The above fees are for students entering in September, 1936, and thereafter. (For fees applicable to other students, see Circular for 1936-1937.)

Fees for Part-Time Students.—Effective for new students entering in September, 1936, and thereafter. (For partial fees applicable to other students, see Circular for 1936-1937.)

Residents of Illinois registered for partial programs pay fees as follows: In first-year and second-year courses, 25 cents per clock hour, plus regular laboratory fees in the courses for which the student registers. In third-year and fourth-year courses, 20 cents per clock hour, plus full laboratory fees and an additional 15 cents per clock hour for courses involving dispensary or infirmary.

Non-state students registered for partial programs pay one and one-half times the above stated clock hour fees, except for dispensary and infirmary.

In no case will a part-time student be assessed a larger fee than the regular fees for full-time work.

Scholarship students in the College of Dentistry registered for partial programs in the third and fourth years pay thirty per cent of the above amount for dispensary fees.

Summer Fees in the Infirmary.—For residents of Illinois: tuition, \$12.50; infirmary, \$12.50; total, \$25.00. For non-residents of Illinois: tuition, \$22.50; infirmary, \$12.50; total, \$35.00. Students registering for half the summer pay half these fees. Students without deficiencies who work in the infirmary on a voluntary basis are exempt from these fees. All students, however, are subject to the late registration fee.

Summer Fees for Course Work (Not Infirmary).—For residents of Illinois: one course, \$15.00 plus laboratory fees; each additional course, \$10.00 plus laboratory fees. For non-residents of Illinois: one course, \$25.00 plus laboratory fees; each additional course, \$15.00 plus laboratory fees.

Summer Locker Fee.—A locker fee of 50 cents is charged each summer student.

¹The Trustees reserve the right to change the fees at any time. Laboratory fees are subject to adjustment from year to year.

²Graduation fee of \$10.00 is required, payable at the end of the second year by students receiving the B.S. degree, and at the end of the fourth year by students receiving the D.D.S. degree.

<i>Late Registration Fee.</i> —Former students registering after the registration days pay a late registration fee of	\$ 5.00
<i>Special Examination Fee.</i> —For any special examination a fee of	5.00
<i>Change Fee.</i> —For every change of study-list made later than the Saturday noon following registration, a fee of \$1.00 is charged, except that the total charge for the rearrangement authorized on any one change-slip shall not exceed.....	2.00
(The above ruling applies to registration for electives after the dates specified for regular registration.)	

<i>Listener's or Visitor's Fee.</i> —For each 25 clock hours, or fraction thereof:	
Residents of Illinois pay.....	10.00
Non-residents of Illinois pay.....	20.00

<i>Transcript Fee.</i> —Each student who has paid all his University fees is entitled to receive, without charge, one transcript of his record. For additional transcripts, charges are made as follows:	
For each original, or first, copy.....	1.00
For each carbon copy.....	.50

<i>Special Courses for Dentists</i> (No matriculation is required).....	50.00
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Chest X-ray Fee.—Each student entering the College of Dentistry is assessed a chest X-ray fee of \$1.50 in connection with the physical examination required before registration.

Unclassified Students.—Fees charged unclassified students are based on the amount of work taken.

Payment of Deferred Fees.—In cases of necessity, students may arrange for deferment of fees by calling at the Business Office, Room 110, Medical and Dental College Laboratories Building.

A service charge of ten per cent of the amount of fees deferred, but not to exceed \$3.00, will be charged for the privilege of deferring fees, and this charge *must be paid on Registration Day*. If deferred fees are paid in full within ten days of Registration Day, the service charge will be refunded *except* that a minimum service charge of \$1.00 will be retained by the University. The matriculation fee of \$10.00 (if not previously paid), the service charge, not less than twenty-five per cent of the current semester fees, and all fees and charges from previous semesters must be paid *on Registration Day*. Failure to meet payments of fees within the time limits will cancel at once the privilege of attending classes. Registration is not completed until fees are paid in full, and no credit will be recorded for class work completed unless all fees and all other charges have been paid in full. Deferred payment of fees delays the completion of registration but extends the privilege of attending classes pending payment of fees in full as described above.

Deposit.—An applicant for admission to the College of Dentistry who is assigned a place in any class, is required to make a deposit of \$15.00 within two weeks of the date of notification that he will be admitted. This deposit will be applied on fees, including laboratory fees, assessed against him during the first semester. Failure to pay this deposit within the specified time will subject the applicant to forfeiture of his place. No deposit will be returned unless the applicant notifies the College of Dentistry not later than September 1 that he will not be able to enter. The Registrar is authorized to make refunds after September 1 when, in his judgment, the circumstances so justify.

Refunds.—If a student withdraws from the school within ten days after the be-

ginning of instruction, the total amount of his fees except the matriculation fee will be refunded. After ten days and before the expiration of one month, a refund of three-fourths of the tuition and laboratory fees will be made. After one month and before the expiration of two months, a refund of one-half of these fees will be made. After two months and before the expiration of three months, a refund of one-fourth of these fees will be made. After the expiration of three months no part of the fees will be refunded.

Expenses

Estimate of Expenses.—An estimate of the annual expenses for books, materials, and instruments is as follows:

	First Year	Second Year	Third Year	Fourth Year
Books.....	\$ 40.00	\$ 12.00	\$23.00	\$20.00
Materials.....	10.00	50.00	15.00	25.00
Instruments.....	150.00	370.00	30.00	30.00
<i>Total</i>	\$200.00	\$432.00	\$68.00	\$75.00

Each student is also required to supply himself with a microscope at the beginning of the first year. The cost of the microscope is in addition to the expense listed above. All microscopes must be approved by the Head of the Histology Department.

The instruments purchased during the four years constitute a part of the equipment of a dental office. New microscopes, instruments, and supplies may be secured at the dental supply store on the ninth floor of the College of Dentistry. The University has installed this service in the interest of the student. It is not a profit-making undertaking.

The expenses of living in Chicago are less than in most large cities. From thirty to fifty dollars per month may be regarded as adequate for the ordinary living expenses of a student, exclusive of books, clothing, railroad fare, and miscellaneous needs. A ten-story Y.M.C.A. building located two blocks from the College affords a comfortable home for students.

Physical Examinations

Students contemplating a dental course should check up on their health and physical condition. The dental program is exacting and strenuous, and loss of time is costly. A complete physical examination by the family physician is urged. The eyes and teeth should be in the best of condition. Tonsils should be removed if the physician deems this advisable.

Each student entering the College of Dentistry is given a physical examination by the University Health Service prior to registration. A special fee of \$1.50 is assessed to cover the expense of making an X-ray chest plate in connection with this examination. Throughout the entire dental course the University Health Service makes every possible effort to assist each student in solving his own health problems.

Scholarships

The following scholarships are open for students in the College of Dentistry:

General Assembly Scholarships.—One nomination annually by each member of the General Assembly. Nominations must be received by the President of the University not later than the first Monday in July of the year in which the scholarship is to become effective.

State Military Scholarships.—For World War Veterans. Special provision passed by the General Assembly in 1919.

(For circulars giving more detailed information concerning scholarships apply to the Registrar, Urbana, Illinois.)

Loan Funds

A number of loan funds have been established for the benefit of worthy students who are in need of financial aid in order to finish their courses in the University. It is advised, however, that first-year students do not plan to depend upon loans from these funds since under University rules first-year students are not eligible to loans. For more detailed information apply to the office of the Dean.

Research Fellowships

The Graduate School of the University of Illinois announces the establishment of four research fellowships to be awarded for one year in the fields of medicine and dentistry. (See announcement under the Graduate School, page 45, for details.)

Honorary Research Assistantships

Students may, during the last year of their course, be permitted to pursue advanced work in a department, provided, first, that they have shown special aptitude; and, second, that their previous work has been of a sufficiently high grade. If at the end of the last year's work the student's application and attainment are regarded as of a sufficiently high character, he may be awarded an honorary research assistantship.

Licenses to Practice in England

The College of Dentistry of the University of Illinois has been listed since 1916 as one of the dental schools recognized by the Royal College of Surgeons, in London. This recognition implies that the Royal College of Surgeons will exempt graduates in dental surgery of the University of Illinois from the preliminary science examination for the license in dental surgery, and will accept such parts of the curriculum for the license as are completed in the College of Dentistry of the University of Illinois toward the curriculum of studies required for the license.

Further Information

This announcement applies to the session beginning September 25, 1939, and all requirements, fees, and regulations mentioned in it apply to this college year alone. The Trustees of the University of Illinois reserve the right to make changes in succeeding announcements. Conditions specified in the catalog can not be modified except with the written consent of the proper officials of the University.

For further information address

THE DEAN, COLLEGE OF DENTISTRY
UNIVERSITY OF ILLINOIS
808 SOUTH WOOD STREET, CHICAGO

COURSES OFFERED IN THE COLLEGE OF DENTISTRY

NOTE: The course numbers are indicated by Arabic numerals preceding the captions. Double numbers indicate courses extending through two semesters. Unless otherwise stated, the Arabic numbers following the description of courses indicate the number of one-hour periods a week. The first and second semesters are indicated by the Roman numerals, *I* and *II*, respectively.

ANATOMY

Professors: KAMPMEIER (Head of the Department).

Associate Professors: VON BONIN.

Assistant Professors: JORANSON, ZECHEL, WEBB.

Instructors: FISCH, STEIN.

Assistants: BERGQUIST, GLASSMAN.

Required Courses

FIRST YEAR

11-12. *Systematic and Regional Anatomy*.—This includes a complete dissection of the body. Lecture, demonstration, recitation, and seminar, 2; laboratory, 2 three-hour periods. *I*, *II*. Assistant Professor JORANSON, Dr. FISCH, and assistants.

14. *Neurology*.—Gross and microscopic anatomy of the nervous system; dissection of the brain and examination of stained sections; correlation of structure and function. Lecture and demonstration, 1 two-hour period. *II*. Assistant Professor ZECHEL, Dr. STEIN, and assistants.

Elective Courses

FOURTH YEAR

51. *Advanced Anatomy of the Head and Neck*.—Open to fourth-year students. Lecture or quiz, 1; laboratory, 1 three-hour period. *I*. Assistant Professor JORANSON.

Courses for Graduate Students

101. *Advanced Anatomy*.—The work may take the direction either of macroscopic or of microscopic anatomy, or of both, according to the student's major problem: in macroscopic anatomy, a detailed redissertation of the human body, or any of its parts; in microscopic anatomy (embryology, cytology, histology, etc.), a consideration of morphological changes in the organism which are directly correlated with normal processes, such as reproduction, differentiation, nutrition, growth, variation, regulation, regeneration, activity, secretion, rest, fatigue, senility. (Work in the laboratory for tissue culture in association with Assistant Professor ZECHEL). Course designed for students choosing anatomy as a minor, and for students preparing for individual research in anatomy. One or two units. Professor KAMPMEIER, Associate Professor VON BONIN, Assistant Professor WEBB.

103. *Individual Research*.—In embryology, cytology and histology, neurology, anthropology and biometrics, experimental morphology, functional and applied anatomy. One to three units. Professor KAMPMEIER, Associate Professor VON BONIN, Assistant Professor WEBB.

DENTAL JURISPRUDENCE

Lecturers: WHAM.

Required Courses**FOURTH YEAR**

42. *Dental Jurisprudence*.—The principles of law governing individual and professional rights and obligations; rights and obligations arising from the relationship of dentist and patient and their enforcement in court; expert testimony; state dental statute and general law. Lecture, 1 (6 weeks). *II.* Mr. WHAM.

DENTAL PATHOLOGY AND THERAPEUTICS

Professors: McGuigan (Head of the Department in the College of Medicine), CAMP.

Assistant Professors: KESEL (Acting Head of the Department in the College of Dentistry), EWING.

Associates: WACH, HINE.

Instructors: ELLINGSON, KRAMP, GRUNWALD, BERMAN, HIGGINS.

Assistants: SHARPE, HANSEN, BLICKENDSORFER.

Required Courses**SECOND YEAR**

22. *Technic*.—The mechanics of exposing, cleaning, enlarging, and filling root-canals. Principles of mouth examination and technic of oral prophylaxis. Lecture, 1; laboratory, 1 three-hour period. *II. Prerequisite:* Operative Dentistry 21. Assistant Professor KESEL, Dr. KRAMP, Dr. SHARPE.

THIRD YEAR

31. *Materia Medica and Therapeutics*.—Nomenclature, classification and action of drugs, and prescription writing. Lectures, 2. *I. Prerequisite:* Physiology 21-22. Dr. WACH.

32. *Pharmacodynamics*.—Demonstrations and laboratory exercises, 1 two-hour period. *II. Prerequisite:* Dental Pathology and Therapeutics 31. Professors McGuigan and CAMP, Assistant Professor EWING, Dr. HIGGINS, and assistants.

33. *Hygiene and Public Health*.—Measures for prevention of dental disease. The oral flora and their relation to disease. Technic of oral hygiene. Hygiene of ventilation, communicable diseases, waste disposal, and sanitation. Lecture, 1. *I. Prerequisite:* Pathology and Bacteriology 22. Dr. HINE, Miss ELLINGSON.

34. *Dental Pathology and Therapeutics*.—Etiology, pathology, and treatment of lesions of the investing tissues of the teeth and of other oral tissues. Lectures, 2. *II. Prerequisite:* Dental Pathology and Therapeutics 31, and Pathology and Bacteriology 31. Dr. HINE.

35-36. *Clinical Practice*.—Clinical and laboratory examination; oral prophylaxis; treatment of the parodontal tissues; general management of root-canals. Conferences and demonstrations to groups. *I, II. Prerequisite:* Operative Dentistry 21-22, Dental Pathology and Therapeutics 22, and Pathology and Bacteriology 22. Members of the staff.

FOURTH YEAR

41. *Dental Pathology and Therapeutics.*—Pathology of dental caries, pathology and treatment of diseases of the dental pulp and periapical tissue. Tissue reactions in periapical region following pulp removal. Lectures, 1; laboratory, 1 two-hour period. *I. Prerequisite:* Dental Pathology and Therapeutics 34 and 35-36. Assistant Professor KESEL, Dr. HINE, Dr. BERMAN.

45-46. *Clinical Practice.*—Clinical and laboratory examination and diagnosis of oral conditions; interpretation of radiograms; treatment of root-canals and parodontal tissues; records. Conferences and demonstrations to groups. *I, II. Prerequisite:* Dental Pathology and Therapeutics 35-36. Members of the staff.

Elective Courses

FOURTH YEAR

51. *Advanced Therapeutics.*—Group or individual conference, 1; laboratory, 1 three-hour period. *I. Prerequisite:* Dental Pathology and Therapeutics 35-36. Course limited to six students who are acceptable to the department. Assistant Professor KESEL, Dr. HINE.

Courses for Graduate Students

101. *Advanced Therapeutics.*—One or two units. Assistant Professor KESEL.

103. *Therapeutic Research.*—One or two units. Assistant Professor KESEL.

Special Courses for Dentists

61. *Dental Pathology and Therapeutics.*—Discussion of diseases of the dental pulp and the periapical tissues and their treatment. A study of tissue reactions following treatment as exhibited by clinical, radiographic, and microscopic findings. The management of clinical cases. Fee for one month, \$50. Assistant Professor KESEL, Dr. HINE.

62. *Dental Pathology and Therapeutics.*—Discussion of diseases of the parodontal tissues and their treatment. The microscopic study of the gingival crevice and pathologic pockets in human material. The management of clinical cases. Fee for one month, \$50. Assistant Professor KESEL, Dr. HINE.

DENTISTRY FOR CHILDREN

Professors: NOYES (Director of the Clinic).

Assistant Professors: GERLACH (Superintendent of the Clinic).

Associates: NELSON.

Assistants: GREENAWAY, BOSTIAN.¹

Required Courses

FOURTH YEAR

41-42. *Dentistry for Children.*—Operative and therapeutic care of children's teeth. Clinical practice. Students assigned in groups. Lecture, 6; clinic, 30 hours. *I. Clinic*, 36 hours. *II. Assistant Professor GERLACH, Dr. NELSON, and assistants.*

¹Beginning February 1, 1939.

Elective Courses**FOURTH YEAR**

51. *Dentistry for Children*.—Advanced studies in therapeutics, operative procedures, and principles of space maintenance. Lectures or conferences, 1; clinic, 1 three-hour period. *I*. Assistant Professor GERLACH, Dr. NELSON, and assistants.

DIAGNOSIS

Assistant Professors: KREJCI (Examiner in the Infirmary).

Associates: KNUDTZON, LANE.

Instructors: ANDREE, DANN, RENFROE.

Assistants: DENNEMAN, FORSLUND, CONDRÉN.

Required Courses**THIRD YEAR**

31. *Oral Diagnosis and Radiographic Interpretation*.—Principles and methods. Lecture and quiz, 1 (8 weeks). *I*. Assistant Professor KREJCI.

32. *Diagnosis*.—Clinics and conferences, 3 three-hour periods. Students assigned in groups. *II*. Assistant Professor KREJCI.

FOURTH YEAR

41-42. *Diagnosis*.—Clinic and conference, 1. *I, II*. Assistant Professor KREJCI and heads of clinical departments.

Elective Courses**FOURTH YEAR**

51. *Diagnosis*.—Lecture or conference, 1; clinic, 1 three-hour period. *I*. Assistant Professor KREJCI.

HISTOLOGY AND EMBRYOLOGY

Professors: SCHOUR (Head of the Department).

Assistants: GELFAND.

Research Assistants: HOFFMAN, SPENCE, HERZBERG, SARNAT.

Required Courses**FIRST YEAR**

15. *General Histology*.—Cell structure; relation of cells and intercellular substances; the elementary tissue; the histology of the organs of the circulatory, alimentary, respiratory, genito-urinary, and nervous systems, and the skin and its appendages. Lecture or quiz, 2; laboratory, 2 two-hour periods. *I*. Professor SCHOUR, Dr. GELFAND, Dr. HOFFMAN.

16. *Dental Histology and Embryology*.—Embryology of the face, oral cavity and teeth. The development of the tooth and its investing apparatus in terms of its growth, calcification, and eruption. The structure of the dental and oral tissues. The course also includes histophysiologic aspects of experimental dentistry. Lecture, recitation, or seminar, 2; laboratory, 2 two-hour periods. *II*. Professor SCHOUR, Dr. GELFAND, Dr. HOFFMAN.

Elective Courses**FOURTH YEAR**

53. *Advanced Embryology of the Teeth and Oral Cavity*.—Course limited to ten students acceptable to the department. Lecture, 1; laboratory, 1 three-hour period. *I.* Professor SCHOUR.

55. *Advanced Histology of the Teeth and Oral Cavity*.—Course limited to ten students acceptable to the department. Lecture, 1; laboratory, 1 three-hour period. *I.* Professor SCHOUR.

Courses for Graduate Students

101. *Advanced Dental Histology*.—One or two units. Professor SCHOUR.

102. *Research in Microscopic Anatomy (Teeth and Related Tissues)*.—One to three units. Professor SCHOUR.

103. *Experimental Histophysiology of Teeth and Investing Tissues*.—One to three units. Professor SCHOUR.

Special Courses for Dentists

61. *Histology*.—Conference and demonstration on the following subjects: cells, epithelial tissue, connective tissue, embryology of tooth, enamel, dentin and cementum, periodontal membrane, mandible, mouth tissues. Histologic analysis of the teeth of animals which have been subjected to various endocrine, vitamin, and other metabolic disturbances. Fee for one month, \$50. Professor SCHOUR.

MEDICAL AND DENTAL HISTORYAssistant Professor TALBOT¹**Required Courses****FIRST YEAR**

11-12. *History of Medicine and Dentistry*.—1. *I, II*. Also required of second-year students in 1939-1940.

SECOND YEAR

21-22. *History of Medicine and Dentistry*.—1. *I, II*. Offered only to third-year students in 1939-1940.

THIRD YEAR

31. *Dentistry and Society*.—1. *I*. Also required of fourth-year students in 1939-1940.

FOURTH YEAR

41-42. *Seminar*.—Consultations on the preparation of scientific papers. Reading and discussion of papers. *I, I, II*.

Elective Courses**FOURTH YEAR**

51. *Social Problems*.—1. *I*.

MEDICINE

Professors: KEETON, HESS, SENEAR.

Assistant Professors: DALITSCH, CORNBLEET, BRONSTEIN.

Associates: CARO, RATTNER.

Cooperating: Assistant Professor KANTHAK.

¹On leave of absence for 1938-1939.

Required Courses**THIRD YEAR**

31. *Clinical Pediatrics*.—Lecture and clinic, 1 two-hour period. *I*. Professor HESS, Assistant Professor BRONSTEIN.

33-34. *Medicine*.—Lecture and clinic, 1 one-hour period. *I, II*. Assistant Professor DALITSCH.

36. *Dermatology*.—Lecture and clinic, 1 one-hour period. *II*. Professor SENEAR, Assistant Professor CORNBLEET, Dr. CARO, Dr. RATTNER.

FOURTH YEAR

41-42. *Medicine*.—Lecture and clinic, 1 two-hour period. *I, II*. Assistant Professor DALITSCH.

Elective Courses

51. *Hospital Dentistry*.—Dental treatment of hospital patients, with a discussion of hospital procedure. Open to five qualified students. Lecture or conference, 1; clinic, 1 three-hour period. *I*. Assistant Professor KANTHAK.

Courses for Graduate Students

101. *Research in Medicine*.—One to three units. Professor KEETON.

OPERATIVE DENTISTRY

Professors: GALLIE (Emeritus).

Assistant Professors: ARNIM (Acting Head of the Department), GERLACH (Superintendent of the Children's Clinic), KREJCI (Examiner in the Infirmary).

Associates: BAXTER, BUCKMAN, ULLOA.

Instructors: BESIC.

Assistants: DIETZ, KRESHOVER, STEPHAN, WEINMANN, KOS, BETTY.¹

Required Courses**FIRST YEAR**

11-12. *Dental Anatomy*.—A study of human teeth, their structure, form, relation to one another and to the body as a whole with an analysis of these fundamentals from the standpoint of their relation to function, disease, and treatment. Lecture or quiz, 1; laboratory, 1 three-hour period. *I, II*. Assistant Professor ARNIM, Dr. ULLOA, Dr. DIETZ, Dr. KRESHOVER, Dr. Kos.

SECOND YEAR

21-22. *Technic*.—Theory of the etiology and treatment of dental caries; various types of restorations on models and manikins. Lecture and quiz, 1; laboratory, 2 three-hour periods; *I*. Lecture, 1; laboratory, 1 three-hour period; *II*. *Prerequisite*: Operative Dentistry 11-12. Assistant Professor ARNIM, Dr. ULLOA, Dr. DIETZ, Dr. KRESHOVER, Dr. STEPHAN.

THIRD YEAR

31-32. *Operative Dentistry*.—Principles of practice. Lecture, 1. *I, II*. *Prerequisite*: Operative Dentistry 21-22. Assistant Professor ARNIM.

35-36. *Clinical Practice*.—Diagnosis. Restorations. Conferences and demonstrations to groups. *I, II*. *Prerequisite*: Operative Dentistry 21-22. Members of the staff.

¹Beginning February 1, 1939.

FOURTH YEAR

41-42. *Clinical Observations and Practice Management.*—Lecture, 1, bi-weekly. *I, II.* Prerequisite: Operative Dentistry 35-36. Assistant Professor ARNIM.

45-46. *Clinical Practice.*—Continuation of courses 35-36 with emphasis on more difficult cases. Practical examinations. *I, II.* Prerequisite: Operative Dentistry 35-36. Members of the staff.

Elective Courses

51. *Variables and Modifications in Operative Dentistry.*—Research and analysis of methods of treatment. Lecture, 1; laboratory, 1 three-hour period. *I.* Assistant Professor ARNIM.

Special Courses for Dentists

61. *Operative Dentistry.*—Gold foil, inlay, amalgam, and cement restorations with detailed discussion of instrumentation and operating procedures. The course is supplemented by lectures on the etiology and treatment of caries; causes and results of mechanical and chemical injury to teeth; indications and contraindications for the various types of restorations. Fee for one month, \$50. Assistant Professor ARNIM.

62. *Operative Dentistry.*—Detailed studies of the relation of the preclinical sciences, physics, chemistry, anatomy, histology, and pathology, to the treatment of carious and non-carious injuries to teeth with clinical and research projects on the application of these studies to practice. This work may be undertaken on a full- or part-time basis for one year. Fee for one semester, full time, \$75 and laboratory fees; for half-time, \$50 and laboratory fees. Assistant Professor ARNIM.

ORAL AND PLASTIC SURGERY AND ORAL PATHOLOGY

Professors: MOOREHEAD (Head of the Department), L. SCHULTZ (Emeritus).

Assistant Professors: LADD, L. W. SCHULTZ, KANTHAK.

Associates: OLECH, DROBA.

Instructors: RIEKE, GORDON, ALBAN, FABIAN.

Assistants: SERON.

Required Courses

THIRD YEAR

31. *Anaesthetics.*—Lecture and conference. 1 one-hour period, 6 weeks. *I.* Dr. DROBA.

32. *Oral Pathology.*—Lectures, recitations, demonstrations, 2; laboratory, 1 three-hour period. *II.* Professor MOOREHEAD, Assistant Professors LADD, KANTHAK, and assistants.

34. *Extracting Clinic.*—2 four-hour periods with groups. *II.* Dr. DROBA, Dr. OLECH, Dr. ALBAN, Dr. FABIAN, Miss RIEKE.

FOURTH YEAR

41-42. *Oral Surgery.*—Lecture and conference, 1. *I, II.* Professor MOOREHEAD, Assistant Professor SCHULTZ.

43-44. *Oral Surgery.*—Clinic, 2 two-hour periods. *I, II.* Professor MOOREHEAD, Assistant Professor SCHULTZ, Dr. OLECH, Dr. DROBA, Miss RIEKE.

45-46. *Extracting Clinic.*—6 four-hour periods with groups. *I, II.* Dr. DROBA, Dr. OLECH, Dr. ALBAN, Dr. FABIAN, Miss RIEKE.

Elective Courses**FOURTH YEAR**

51. *Extraction*.—Extended instruction. Lecture, 1; laboratory, 1 three-hour period. *I.* Professor MOOREHEAD, Dr. DROBA, Miss RIEKE.

53. *Oral Pathology*.—Tumors of the mouth. Lecture, 1; laboratory, 1 three-hour period. *I.* Professor MOOREHEAD, Assistant Professors LADD and KANTHAK.

Courses for Graduate Students

101. *Pathology of Mouth*.—One or two units. Professor MOOREHEAD, Assistant Professor LADD.

103. *Oral Surgery*.—Two units. Professor MOOREHEAD.

Special Courses for Dentists

61. *Anaesthesia and Extraction*.—Studies in anatomy and methods on green skull preparations. General principles governing the extraction of teeth with clinical practice. Fee for one month, \$50. Dr. DROBA, Dr. OLECH, Miss RIEKE.

62. *Oral Pathology*.—Laboratory studies in mouth pathology. Fee for one month, \$50. Professor MOOREHEAD, Assistant Professors LADD and KANTHAK.

63. *Minor Oral Surgery*.—Study of individual cases, illustrating methods of examination and preparation of case reports, summary of conclusions, with treatment. Clinical demonstrations, four hours each week. Hospital clinics by appointment. Fee for one month, \$50. Professor MOOREHEAD, Assistant Professor SCHULTZ, Dr. DROBA, Dr. OLECH.

ORTHODONTIA

Professors: BRODIE (Head of the Department), NOYES.

Assistant Professors: DOWNS.

Instructors: MYER, GOLDSTEIN.

Required Courses**THIRD YEAR**

31. *Fundamentals of Occlusion*.—Phylogenetic development of teeth, jaws, and face; study of bones and musculature of the head and neck; the forces of occlusion and the growth and development of the head and face. Lecture, 1. *I.* Professor BRODIE.

33. *Orthodontia*.—Demonstration and technic; impressions, plaster models; soldering technic. Laboratory, 2 two-hour periods. *I.* Dr. MYER, Dr. GOLDSTEIN.

34. *Orthodontia*.—History; fundamental principles; normal occlusion; development of denture; forces of occlusion; classification; etiology of malocclusion. Lecture, 1. *II.* Professor BRODIE, Assistant Professor DOWNS.

FOURTH YEAR

41. *Orthodontia*.—History, development of appliances; gathering of histories; case analysis; principles of treatment; possibilities and limitations. Lecture, 1. *I.* Professor BRODIE, Assistant Professor DOWNS.

43-44. *Orthodontia*.—Presentation of cases showing records taken, analysis, prognosis, method of treatment and results. Clinic, demonstration, and conference, 1 two-hour period. *I, II.* Professor BRODIE, Assistant Professor DOWNS, Dr. MYER, Dr. GOLDSTEIN.

Elective Courses**FOURTH YEAR**

51. *Orthodontia*.—Growth and development of the head. Lecture, 1; laboratory, 1 three-hour period. *I.* Professor NOYES, Professor BRODIE.

Courses for Graduate Students

101. *Orthodontia*.—One to three units. Professor NOYES, Professor BRODIE.

PATHOLOGY AND BACTERIOLOGY

Professors: DAVIS (Head of the Department), PETERSEN, ARNOLD.

Associate Professors: PILOT, LEVINSON, NEDZEL.

Assistant Professors: LADD, MILLES, KANTHAK.

Required Courses**SECOND YEAR**

22. *General Bacteriology*.—Sterilization; disinfection; preparation of culture media; general morphologic and cultural characteristics of bacteria; isolation, cultivation, and identification of pathogens; relation of bacteria to disease; immunity; vaccines; application of principles of bacteriology to problems of hygiene. Animal experiments are used where appropriate. This course covers the general principles of bacteriology and immunology. Lectures, recitations, and demonstrations, 3; laboratory, 2 three-hour periods. *II.* Professor ARNOLD, Associate Professor NEDZEL, and assistants.

THIRD YEAR

31. *General Pathology*.—Principles of general pathology. Circulatory disturbances, retrogressive and progressive changes, inflammation, tumors and the special pathology of the important organs of the body. Emphasis is placed upon the study of gross specimens both fresh and preserved. Attendance upon autopsies is required in the second half of the semester. Lectures, recitations, and demonstrations, 3; laboratory, 3 two-hour periods. *I. Prerequisite:* Pathology and Bacteriology 22 and Physiology 21-22. Professor PETERSEN, Assistant Professors LADD and KANTHAK, and assistants.

Courses for Graduate Students

101. *Advanced Pathogenesis*.—One to three units. Professors DAVIS, PETERSEN, and ARNOLD, Associate Professor PILOT.

103. *Individual Research*.—One to four units. Professors DAVIS, PETERSEN, and ARNOLD, Associate Professor PILOT.

PHYSIOLOGICAL CHEMISTRY AND METALLURGY

Professors: WELKER (Head of the Department).

Associate Professors: BERGEIM.

Assistant Professors: COLE.

Associates: JOHNSON.

Instructors: BRIGGS.

Assistants: HARVEY.

Required Courses**FIRST YEAR**

11. *Physiological Chemistry*.—Physico-chemical properties of solutions. Chemistry of carbohydrates, lipides, and proteins. Enzymes and digestion. Lecture, demon-

stration, conference, 2; laboratory, 3½. *I.* Associate Professor BERGEIM, Assistant Professor COLE, Dr. BRIGGS, Dr. HARVEY.

12. *Physiological Chemistry.*—Chemistry of bile, blood, milk, and tissues. Metabolism. Chemistry of urine (qualitative and quantitative). Lectures, demonstrations, conferences, 2; laboratory, 3½. *II.* Associate Professor BERGEIM, Assistant Professor COLE, Dr. BRIGGS, Dr. HARVEY.

SECOND YEAR

21. *Metallurgy.*—The general principles of metallurgy. Extracting and refining of the various metals used in dentistry. The physical properties of metals. Analysis of ores, alloys, solders, and cements; refining of gold, silver, and tin. Preparation of alloys and solders. Lectures or conferences, 1; laboratory, 1 two-hour period. *I.* Professor WELKER, Dr. JOHNSON.

Elective Courses

FOURTH YEAR

51. *Metallurgy.*—An advanced course open to graduates or to students who have satisfactorily completed Metallurgy 21. Hours to be arranged. Professor WELKER. *Research.*—The laboratories are open to persons with the requisite scientific training for the conduct of original investigation.

Courses for Graduate Students

101. *Advanced Biological Chemistry.*—Biochemical methods of research, biological colloids, enzyme action, and metabolism. One or two units. Professor WELKER, Associate Professor BERGEIM, Assistant Professor COLE.

102. *Metallurgical Research.*—One or two units. Professor WELKER.

103. *Biochemical Research.*—One or two units. Professor WELKER, Associate Professor BERGEIM, Assistant Professor Cole.

PHYSIOLOGY

Professors: WAKERLIN (Head of the Department), BACHEM, GELHORN.

Associate Professors: REED.

Associates: DARROW, INGRAHAM, STRUCK.

Instructors: STECK, MINARD, BARNES.

Assistants: KLEIN.

Required Courses

SECOND YEAR

21-22. *Human Physiology.*—The functions of the several tissues and organs, and the correlation and regulation of their activities in the human organism. Lectures, conferences, demonstrations, 3, *I*, 3½, *II*; laboratory, 1 three-hour period, *I*, 2 three-hour periods, *II*. *Prerequisite:* Physiological Chemistry 11 and 12. Professor WAKERLIN, Dr. INGRAHAM, and staff.

Elective Courses

(Open only to qualified students. Time to be arranged.)

51. *Special Advanced Physiology.*—This course is designed to meet the needs of students desiring advanced, detailed knowledge of a limited field, and in each semester different fields are selected and announced in advance. Subjects covered



PANORAMIC VIEW OF HOSPITALS AND MEDICAL AND DENTAL BUILDINGS







MAIN READING ROOM OF THE LIBRARY

are: blood, heart, muscle, gastro-intestinal tract, endocrinology, general metabolism and nutrition, growth, and neurophysiology. Professors WAKERLIN and GELLHORN, Associate Professor REED.

55. *Problems in Physiology*.—Professors WAKERLIN and GELLHORN, Associate Professor REED.

Courses for Graduate Students

101. *Research in Physiology*.—One to three units. Professors WAKERLIN and GELLHORN, Associate Professor REED.
102. *Research in Biophysics*.—One to three units. Professor BACHEM.
103. *Seminar in Selected Fields*.—One unit per semester. Professors WAKERLIN, BACHEM, and GELLHORN, Associate Professor REED.
104. *Current Literature Seminar*.—One-half unit per semester. Recommended for all graduate students in physiology. Professors WAKERLIN, BACHEM, and GELLHORN, Associate Professor REED.

PROSTHETIC DENTISTRY

CROWNS AND FIXED PARTIAL DENTURES

Professors: DITTMAR (Head of the Department), TYLMAN.

Associates: BAZOLA.

Assistants: CURTIS, LARSEN, SINIARSKI, GIBBS, RADDE, RAGAN.

Required Courses

FIRST YEAR

11. *Dental Materials*.—The course establishes a basis for the use of dental materials and for their manipulation. Lecture, 1; demonstration and laboratory, 1 two-hour period. *I.* Professor TYLMAN, Dr. CURTIS, Dr. BAZOLA, Dr. RAGAN.

SECOND YEAR

23. *Technic*.—Construction of inlay, three-quarter and crown retainers; pontics, simple types of fixed and semi-fixed partial dentures. Lecture, 1; laboratory, 2 three-hour periods. *I. Prerequisite:* Operative Dentistry 11-12. Professor TYLMAN, Dr. BAZOLA, Dr. LARSEN, Dr. CURTIS, Dr. SINIARSKI.

25. *Ceramics*.—History, physical characteristics, and application of porcelain; preparations; construction of complete crowns and pontics; stains. Laboratory, 1 three-hour period. *I. Prerequisite:* Operative Dentistry 11-12. Professor TYLMAN, Dr. BAZOLA, Dr. LARSEN, Dr. CURTIS, Dr. SINIARSKI.

26. *Technic*.—Compound types of fixed and semi-fixed partial dentures. Lecture or quiz, 1; laboratory, 2 three-hour periods. *II. Prerequisite:* Crowns and Fixed Partial Dentures 23 and 25. Professor TYLMAN, Dr. BAZOLA, Dr. LARSEN, Dr. CURTIS, Dr. SINIARSKI.

THIRD YEAR

35-36. *Clinical Practice*.—Simple types of crowns and partial dentures; diagnosis. Conferences and demonstrations to groups. Lecture, 1, bi-weekly. *II. Prerequisite:* Crowns and Fixed Partial Dentures 23, 25, and 26. Professors DITTMAR and TYLMAN, Dr. BAZOLA, Dr. LARSEN, Dr. CURTIS, Dr. SINIARSKI, Dr. GIBBS, Dr. RADDE, Dr. RAGAN.

FOURTH YEAR

41-42. *Diagnosis*.—Diagnosis and treatment of more difficult clinical cases. Prosthetic treatment of facial and oral defects. Lectures and demonstrations, 1, bi-weekly. *I, II. Prerequisite*: Crowns and Fixed Partial Dentures 36. Professors DITTMAR and TYLMAN.

45-46. *Clinical Practice*.—Diagnosis; complex types of fixed and semi-fixed partial dentures, obturators; porcelain restorations. Conferences and demonstrations. *I, II. Prerequisite*: Crowns and Fixed Partial Dentures 36. Professors DITTMAR and TYLMAN, Dr. BAZOLA, Dr. LARSEN, Dr. CURTIS, Dr. SINIARSKI, Dr. GIBBS, Dr. RADDE, Dr. RAGAN.

Elective Courses

51. *Dental Materials*.—A study of the chemical and physical properties of the materials used in dentistry. Lecture, 1; laboratory, 1 three-hour period. *I. Professor TYLMAN*.

Special Courses for Dentists

61. *Dental Ceramics*.—Instrumentation and a review of various types of porcelain jacket crown preparations. Study of the manipulation and properties of dental porcelains and stains. Clinical procedures involving the construction of porcelain veneer crowns. Fee for one month, \$50. Professor TYLMAN, Dr. CURTIS.

62. *Crowns and Fixed Partial Dentures*.—The principles underlying the preparation and construction of bridge retainers, pontics, and connectors. An analysis of clinical data in relation to proper diagnosis, classification, and indications of various types of fixed restorations. A correlation of the manipulation and properties of the various materials used in this course. Fee for one month, \$50. Professor TYLMAN, Dr. BAZOLA.

FULL DENTURES AND REMOVABLE PARTIAL DENTURES

Professors: KELLOGG, KUBACKI.

Instructors: HATTENHAUER.

Assistants: KING, ANDERSON, MORTENSEN, BOSTIAN.

Required Courses

FIRST YEAR

11-12. *Technic*.—Partial denture construction. Lecture, 1; laboratory, 1 two-hour period. *I, II. Professors KELLOGG and KUBACKI, and assistants*.

SECOND YEAR

21. *Technic*.—Partial denture construction. Lecture, 1; *I. Laboratory, 1 three-hour period, I. Prerequisite*: Technic 11-12. Professors KELLOGG and KUBACKI, and assistants.

22. *Technic*.—Full denture construction. Lecture, 1; *II. Laboratory, 2 two-and-a-half-hour periods; II. Prerequisite*: Technic 11-12 and 21. Professors KELLOGG and KUBACKI, and assistants.

THIRD YEAR

35-36. *Clinical Practice*.—Partial and full dentures. Conferences and demonstrations to groups. *I, II. Lecture, 1, bi-weekly. II. Prerequisite*: Technic 21-22. Professors DITTMAR, KELLOGG, and KUBACKI, and assistants.

FOURTH YEAR

45-46. *Clinical Practice*.—Partial and full denture construction. Lecture, 1, bi-weekly. *I, II. Prerequisite*: Clinical Practice 35-36. Professors DITTMAR, KELLOGG, and KUBACKI, and assistants.

Special Courses for Dentists

61. *Denture Prosthesis*.—The complete construction of full dentures, embracing theory and methods related to various clinical types. Methods of securing correct jaw relations; types of faces and their esthetic relation to the selection of teeth. The construction of at least one practical case in one of the newer resinous materials. Fee for one month, \$50. Professors KELLOGG and KUBACKI.

62. *Partial Dentures*.—Theory and construction of partial dentures; mouth and tooth preparation; theory of clasp construction; palatal arches and lingual bars; one piece and assembled castings; effects of applied stress and occlusion. The construction of a practical case. Fee for one month, \$50. Professors KUBACKI and KELLOGG.

ROENTGENOLOGY

Professors: HARTUNG, BACHEM.

Technicians: ANDERSON, MALONEY.¹

Required Courses

THIRD YEAR

31. *Roentgenology*.—History and theory. Lectures, 1 (2 weeks). *I*. Professor BACHEM.

33-34. *Roentgenology*.—Technic and clinical practice. Demonstrations and conferences. Students assigned in groups. 1 two-hour period. *I, II*. Miss ANDERSON.

¹Resignation effective November 1, 1938.

PROVISIONAL SUMMARY OF CLOCK HOURS

Subjects	First Semester		Second Semester		Total
	Didactic	Laboratory	Didactic	Laboratory	
FIRST YEAR					
Anatomy.....	32	96	32	96	256
Dental Anatomy.....	16	48	16	48	128
Dental Histology.....	..	..	32	64	96
Dental Materials.....	16	32	..	..	48
Dentures, Removable, Partial.....	16	32	16	32	96
Histology.....	32	64	..	..	96
History of Medicine and Dentistry.....	16	..	16	..	32
Neurology.....	..	..	16	16	32
Physiological Chemistry.....	32	56	32	56	176
<i>Total</i>	160	328	160	312	960
SECOND YEAR					
Bacteriology.....	..	..	48	96	144
Crowns and Fixed Dentures.....	16	144	16	96	272
Dentures, Removable, Partial and Full.....	16	48	16	80	160
History of Medicine and Dentistry.....	16	..	16	..	32
Operative Dentistry.....	16	96	16	48	176
Physiology.....	48	48	56	96	248
Therapeutics.....	..	..	16	48	64
Metallurgy.....	..	..	16	32	48
<i>Total</i>	112	336	200	496	1,144
Subjects	First Semester		Second Semester		Total
	Didactic	Laboratory or Clinic	Didactic	Laboratory or Clinic	
THIRD YEAR					
Anaesthetics.....	6	..	..	..	6
Clinical Pediatrics.....	16	16	..	..	32
Crowns and Fixed Dentures.....	..	83	8	107	198
Dentistry and Society.....	16	..	..	..	16
Dentures, Removable.....	..	83	8	107	198
Dermatology.....	..	..	8	8	16
Diagnosis.....	..	..	..	9	9
Extraction Clinic.....	..	..	..	8	8
Fundamentals of Occlusion.....	16	..	..	..	16
History of Medicine and Dentistry.....	16	..	16	..	32
Hygiene and Public Health.....	16	..	..	..	16
Materia Medica.....	32	..	..	..	32
Medicine.....	16	..	16	..	32
Operative Dentistry.....	16	83	16	107	222
Oral Pathology.....	..	..	32	48	80
Orthodontia.....	..	64	16	..	80
Pathology.....	48	96	..	..	144
Pharmacodynamics.....	..	..	..	32	32
Roentgenology.....	10	2	..	2	14
Therapeutics, Didactic.....	..	..	32	..	32
Therapeutics.....	..	83	..	107	190
<i>Total</i>	208	510	152	535	1,405
FOURTH YEAR					
Crowns and Fixed Dentures.....	8	74	8	89	179
Dentistry and Society.....	16	..	..	..	16
Dentistry for Children.....	6	30	..	36	72
Dentures, Removable.....	8	74	8	89	179
Diagnosis.....	..	16	..	16	32
Elective.....	16	48	..	..	64
Extraction Clinic.....	..	24	..	24	48
Jurisprudence.....	..	..	6	..	6
Medicine.....	16	16	16	16	64
Operative Dentistry.....	8	74	8	89	179
Oral Surgery.....	16	64	16	64	160
Orthodontia.....	16	32	..	32	80
Seminar.....	16	..	16	..	32
Therapeutics.....	..	74	..	89	163
Therapeutics, Didactic.....	16	32	..	..	48
<i>Total</i>	142	558	78	544	1,322

REGISTER OF STUDENTS, 1938-1939

Fourth-Year Class

Block, Alfred, A.B., B.S., New York
 Bond, Stewart Leroy, B.S., Illinois
 Borden, John Victor, B.S., Illinois
 Brookstra, Marvin Everhardt, B.S., Illinois
 Donshik, Alexander, B.S., New York
 Dreifus, Max, Dr.Med.Dent., Germany
 Eigen, Morris, B.S., New York
 Erlach, Helen Pianko, M.D., Germany
 Falkenstein, Eric, Dr.Med.Dent., Germany
 Feinstein, Nathan Haynes, Illinois
 Fernhoff, Maurice Aaron, A.B., B.S., New York
 Goldschein, Irving, B.S., Illinois
 Goodman, Jack William, B.S., Illinois
 Gratzinger, Max, M.D., Germany
 Gurian, Bernard, B.S., Illinois
 Hofman, Paul, Dr.Med.Dent., Germany
 Holic, Richard, B.S., Illinois
 Holstein, Irving Julian, B.S., Illinois
 Hulswit, Franklin Frederick, Indiana
 Johnson, Franklin Andrew, B.S., Illinois
 Kasden, Harold, B.S., New York
 Kowalski, Stanley Marvin, Illinois
 Land, Adolf H., Dr.Med.Dent., Germany

Lefkow, Leo, A.B., New York
 Liebenberg, Hans Theodor, Dr.Med.Dent., Germany
 Litz, Bernard Rozov, Illinois
 Mark, Albert Allen, B.S., Illinois
 Massler, Maury, B.S., Illinois
 Moffett, Robert Lee, B.S., Illinois
 Moore, Gerald Wallace, Illinois
 Ohringer, Joseph, Dr.Med.Dent., Germany
 Radziewicz, Henry Stanley, A.B., B.S., New York
 Sandman, Jordan Phillip, A.B., Illinois
 Sayler, James Eugene, B.S., Illinois
 Silverstein, Abraham, B.S., New York
 Smith, Solomon, B.S., Illinois
 Sorrentino, Jeremiah Gennare, B.S., New York
 Stammeyer, William Robert, B.S., Illinois
 Stockton, Roger Kenneth, Illinois
 Sullivan, Edward Joseph, B.S., Illinois
 Watkins, Raymond Harrie, A.B., Illinois
 Weil, Rudolf, Dr.Med.Dent., Germany
 Weinmann, Joseph, M.D., Germany
 Weiss, Marvin, B.S., Illinois
 Wener, Isadore Sol, Illinois

Third-Year Class

Arnim, Benjamin F., Jr., A.B., Texas
 Belkin, George Herman, A.B., New York
 Bernstein, Morton Louis, B.S., New York
 Branscum, George Paul, B.S., Illinois
 Burnstein, Sol Charles, Illinois
 Caprow, Peter Gordon, B.S., Illinois
 Cohen, Herman Joseph, A.B., New York
 Deutschman, Vernon Thomas, B.S., Illinois
 Dittman, George Walter, Jr., A.B., B.S., Illinois
 Gannon, Franklin Elvin, Illinois
 Goldsmith, Milton, B.S., Illinois
 Goode, Louis A., Illinois
 Gray, William M., B.S., Illinois
 Grissom, Wayne Stanley, B.S., Illinois
 Hauptman, Jack, Illinois
 Hillebrand, Richard John, Illinois
 Kessler, Simon, New York
 Korf, Stanley Robert, Illinois
 Kowal, Philip, Illinois
 Kruchkow, Norman, B.S., New York

Kurti, Bert, New Jersey
 Libbin, Samuel S., Illinois
 Lome, Anita Enid, B.S., Illinois
 Macaluso, Alfred Charles, B.S., Illinois
 Marc, Arthur Lowell, B.S., Illinois
 Maurice, Charles George, B.S., Illinois
 Nelson, Frank Arthur, Illinois
 Nowak, Mitchell Joseph, B.S., Illinois
 Patella, John, B.S., New York
 Puklin, Marvin Morton, Connecticut
 Rabinovitz, Harry David, Illinois
 Rosen, Jack, B.S., Illinois
 Rubens, Philip, Illinois
 Sachs, Sidney Howard, New Jersey
 Schnitman, Henry, B.S., New York
 Seifer, Henry Harold, B.S., Illinois
 Sereda, Walter Jacob, Illinois
 Silowitz, Milton Joseph, New York
 Washburn, Kenneth Clinton, B.S., Illinois
 Wilde, Norbert John, Illinois

Second-Year Class

Abelson, Arthur Jacob, New York
 Abrams, Irving, B.S., New York
 Aronow, Calvin Warren, B.S., New York
 Berkowitz, Joseph, Illinois
 Blatchley, Robert Parsons, B.S., Illinois
 Bone, Glen Eugene, Illinois
 Bosscher, Gerald Paul, Illinois
 Cauldwell, Russell Wilford, Illinois
 Cohen, Samuel Elias, B.S., New York
 Davidson, Louis, B.S., New York
 Devereaux, Carpenter F., Ph.C., Illinois
 Eckert, Elmer Arthur, Illinois
 Falkoff, Benjamin, New York
 Feinstein, Irving, New York
 Felsenfeld, Irving, New York
 Ferencz, Albert, Illinois
 Fidel, George, New Jersey
 Ganetis, Thomas Anthony, B.S., New York
 Gillotte, Aldo Edward, Illinois
 Giszowsky, Henry Marcus, Illinois
 Glick, Leo Leonard, Illinois
 Goldstein, Jesse, New York
 Gordon, James Robert, Illinois
 Halperin, Abraham Solomon, Illinois
 Halperin, Victor, A.B., New York
 Heaton, Herbert Francis, Illinois
 Hollander, Walter Morris, Illinois
 Hopp, Samuel Leonard, Illinois

Kaplan, Seymour Joseph, New York
 Katzman, Harold Aaron, New York
 Kinsinger, Wayne Joseph, Illinois
 Kloris, Matthew Peter, Illinois
 Kowal, Morris, New York
 Levin, Bernard Samuel, Illinois
 Lindstrom, Irene Brooks, Illinois
 Linkon, Jack, Illinois
 MacLean, Grant Alexander, Illinois
 Mayer, George Florian, Illinois
 McAloon, Charles Bernard, New York
 Meilach, Melvin Meyer, Illinois
 Meyer, Gustave, A.B., New York
 Modjeski, Phil James, Illinois
 Oringel, Howard, Illinois
 Orland, Frank Joseph, Illinois
 Osinskis, Walter Bruno, Illinois
 Remensnyder, Ross William, Illinois
 Rovner, Ralph Louis, Illinois
 Sarnat, Bernard George, B.S., M.D., Illinois
 Schoondermark, Arthur Hulvei, Illinois
 Upton, Everett Lindsey, Illinois
 Vullo, Joseph, New York
 Waldman, Richard Stanley, Illinois
 Weibe, Rudolph George, Illinois
 Wojahn, William Ted, Illinois
 Yakoubian, Arshag Arthur, New Jersey
 Yeilin, Bernard, Illinois

First-Year Class

Adler, Leonard, New York	Knochel, Edwin Clifford, A.B., Illinois
Armstrong, Robert Kenneth, A.B., Tennessee	Kosotsky, David Albert, New York
Aronoff, Sidney, Illinois	Kowalski, Casey, Illinois
Asher, Carl A., Illinois	Kramer, Benjamin, A.B., New York
Atterbury, Robert Alfred, Illinois	Kurti, Fannie Joy, New Jersey
Bailey, David John, Michigan	Kwicinski, Waldemar Joseph, Illinois
Beckian, Kacheg Thomas, Illinois	Lafler, Robert Lloyd, New York
Biddulph, Wesley Gewehr, Illinois	Lauterstein, Aubrey Morton, Illinois
Blechman, Marvin, Illinois	Lawrence, Maurice, Illinois
Bloch, Henry Francis, Illinois	Lee, Robert Thomas, Illinois
Blum, Herbert Louis, Illinois	Liepke, George, New York
Blum, Irving, New York	Light, Arthur, New York
Carter, Theodore Franklin, B.S., Illinois	London, George, A.B., New York
Cohen, Hubert Jerome, New York	Manke, Wilbert Charles, Illinois
Dale, Edwin Earl, Illinois	Maskal, Richard Joseph, Illinois
Defouw, John, Illinois	Mitchell, David Farrar, Kansas
Eaton, William Keith, Illinois	Nadel, Alfred, New York
Feinstein, Eugene, New York	Oakdale, Ray, Illinois
Ferkel, Louis, Illinois	Oesterle, Albert Reed, Illinois
Field, Frederick, B.S., Illinois	Oliv, Emil John, Illinois
Fletcher, Morris Joseph, New York	Pasquini, Leo Robert, Illinois
Foster, Robert Hale, Illinois	Rachnowitz, Morris David, A.B., New York
Fry, Darwin Henry, Illinois	Safro, Abraham Irving, New York
Fuller, John Leslie, Illinois	Schwartz, Julius Maurice, A.B., New York
Gerber, Stuart Herbert, Illinois	Seminara, Pola Pearl, Illinois
Gesten, Alex, New Jersey	Serotta, Maurice, New York
Gillette, Howard Elmer, A.B., Illinois	Sherman, Stanley Minter, Illinois
Gillooly, Charles Jorden, Illinois	Spera, Frank Xavier, Jr., Illinois
Gold, James Samuel, B.S., Illinois	Spitz, Arnold Arnim, New Jersey
Goldstein, Sol T., Illinois	Stitzel, Robert Dean, Illinois
Greenfield, Raymond, A.B., New York	Swenson, Henry Maurice, New York
Grundset, Kenneth Wilmore, Illinois	Swernofsky, Robert, A.B., New York
Guerin, Harold Donald, New York	Tockman, Irving Samuel, Illinois
Haas, Vernon Jerome, Illinois	Trinidad, Victoriano A., Illinois
Harold, John Francis, Illinois	Weclew, Victor Thomas, Illinois
Henderson, Hugh Richard, Illinois	Wexler, Joseph Woodrow, New York
Hogan, Daniel Wayne, Illinois	Windauer, Robert John, B.S., Illinois
Johnston, Darol Hillern, Illinois	Zelienka, Joseph John, Illinois
Josephson, George, New York	Zimet, Samuel, New York

Unclassified

Steinfeld, Selma, Dr.Med.Dent., Germany

DEGREES CONFERRED, 1938

Degree of Doctor of Dental Surgery

Conferred in June, 1938

ELLIOTT WILLIAM ALPERN, B.S.
PAUL BOSTIAN, A.B.
RUSSELL LAWRENCE CARTER, B.S.
ANDREW B. COHEN, B.S.
MILTON BAER ENGEL, with Honors
PERRY ERLITZ
STANLEY J. FLACHNER, A.B., B.S.
PAUL GECHMAN, B.S.
WILLIAM JOSEPH GIBBS, B.S.
SALVATORE GRIFFO, B.S.
WALTER HOEKSEMA
HARRY ALEX KARCZEWSKI, B.S.
NATHAN SYDNEY KNOLL, B.S.

HENRY HAROLD LEIB, B.S.
LOUIS LEVINE, A.B.
ALFRED NELSON MORTENSEN
EDWARD HARRY RAGAN, B.S.
ROBERT ROY RUBIN, B.S.
CLARENCE L. SCHNEIDER, B.S.
DANIEL H. SPECTOR
HARRY SPODAK, B.S.
HARVEY ALLEN TANNER, B.S.
MORRIS WEINGARTEN
PHILIP WESOKE, B.S.
JACK ZIMENT, B.S.

Conferred in August, 1938

DAYTON BELAROUE BERK, B.S.
JOHN EDWARD EMANUELSON, B.S.
GLEN EVERETT FREY, B.S.
ELIAS HOROWITZ, B.S.
HENRY JOHN KWAPISZ, B.S.
EDWARD JAMES LESKO, B.S.

JOSEPH JAMES ROSENBUCH, A.B., B.S.
HOWARD L. S. WERCH, B.S.
CHARLES WOLAVKA
EDWARD HERMAN WUNDERLICH, B.S.
ZACHARY YARCHOAN, B.S.

Conferred in October, 1938

MASSIS ARMEN BAHADOR, B.S.

NATHAN BECKOFF, D.D.S.

NATHAN BIRN

JESSE HERBERT COVEN, A.B., B.S.

HERBERT FINLEY

DONALD HENRY RUETER, B.S.

ISADORE M. SHAPIRO, B.S., M.D.

Degree of Bachelor of Science in Dentistry

Conferred in February, 1938

JOHN VICTOR BORDEN

JAMES EUGENE SAYLER

Conferred in June, 1938

GEORGE PAUL BRANSCUM

VERNON THOMAS DEUTSCHMAN

GEORGE WALTER DITTMAR, JR., A.B.

MILTON GOLDSMITH

WILLIAM M. GRAY

WAYNE STANLEY GRISCOM

CHARLES GEORGE MAURICE

MICHELL JOSEPH NOWAK

JOHN PATELLA

JACK ROSEN

HENRY SCHNITMAN, A.B.

HENRY HAROLD SEIFER

DANIEL H. SPECTOR

KENNETH CLINTON WASHBURN

MORRIS WEINGARTEN

Conferred in October, 1938

NATHAN HAYNES FEINSTEIN

ANITA ENID LOME

ALUMNI ASSOCIATION OF THE COLLEGE OF DENTISTRY

1939

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RAYMOND W. WORSLEY, '21, *President-elect*

EARL CRAWSHAW, '24, *Vice-President*

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UNIVERSITY OF ILLINOIS
THE GRADUATE SCHOOL

GRADUATE COURSES IN MEDICINE
AND DENTISTRY

DEPARTMENTS

Anatomy; Dental Histology; Dental Therapeutics; Dermatology; Juvenile Behavior; Laryngology, Rhinology, and Otology; Medicine; Neurology and Neurological Surgery; Obstetrics and Gynecology; Ophthalmology; Oral Surgery; Orthodontia; Orthopaedics; Pathology and Bacteriology; Pediatrics; Pharmacology; Physiological Chemistry and Metallurgy; Physiology; Psychiatry; Surgery.

Announcement of
Summer Session of 1939, June 12 to September 9,
and Session of 1939-1940

**GRADUATE SCHOOL CALENDAR
(CHICAGO)**

Summer Session

1939

June 12-13, Monday-Tuesday.....Registration days.
June 14, Wednesday.....Summer courses begin.
Sept. 9, Saturday.....Summer courses end.

First Semester

Sept. 9, Saturday.....Last day for candidates for doctors' degrees in
October to deposit theses.
Sept. 11, Monday.....Last day for candidates for masters' degrees in
October to file applications for degrees and
to deposit theses.
Sept. 27-28, Wednesday-Thursday.....Registration days.
Nov. 30, Thursday.....Thanksgiving Day.
Dec. 16, Saturday, 6 P.M.....Holiday recess begins.

1940

Jan. 2, Tuesday, 8 A.M.....Holiday recess ends.
Jan. 8, Monday.....Last day for filing applications for masters'
degrees to be conferred in February.
Jan. 8, Monday.....Last day for candidates for doctors' degrees in
February to deposit theses.
Jan. 15, Monday.....Last day for candidates for masters' degrees in
February to deposit theses.

Second Semester

Feb. 7-8, Wednesday-Thursday.....Registration days.
Mar. 21, Thursday.....Last day for filing applications for masters'
degrees to be conferred in June.
Mar. 21, Thursday, 6 P.M.....Easter recess begins.
Mar. 25, Monday, 8 A.M.....Easter recess ends.
May 6, Monday.....Last day for candidates for doctors' degrees in
June to deposit theses.
May 13, Monday.....Last day for candidates for masters' degrees in
June to deposit theses.
May 30, Thursday.....Memorial Day.
June 7, Friday.....Annual Commencement.

EXECUTIVE FACULTY OF THE GRADUATE SCHOOL¹

1938-1939

ARTHUR CUTTS WILLARD, B.S., D.Eng., LL.D., *President of the University*

ROBERT DANIEL CARMICHAEL, Ph.D., *Professor of Mathematics and Dean of the Graduate School*

CLARENCE ARTHUR BERDAHL, Ph.D., *Professor of Political Science*

DAVID JOHN DAVIS, M.D., Ph.D., *Professor of Pathology and Dean of the College of Medicine*

REYNOLD CLAYTON FUSON, Ph.D., *Professor of Organic Chemistry*

HARRY STUART VEDDER JONES, Ph.D., *Professor of English*

HAROLD HANSON MITCHELL, Ph.D., *Professor of Animal Nutrition*

HERBERT FISHER MOORE, M.E., M.M.E., D.Sc., *Research Professor of Engineering Materials*

GLENN RAYMOND MORROW, Ph.D., *Professor of Philosophy*

WILLIAM ABBOTT OLDFATHER, Ph.D., LL.D., *Professor of the Classics*

WILLIAM SPENCE ROBERTSON, Ph.D., *Professor of History*

WORTH HUFF RODEBUSH, Ph.D., *Professor of Physical Chemistry*

HENRY PERLY RUSK, M.S., *Professor of Cattle Husbandry*

HIRAM THOMPSON SCOVILLE, A.B., C.P.A., *Professor of Accountancy*

HARLEY JONES VAN CLEAVE, Ph.D., *Professor of Zoology*

WILBUR M. WILSON, M.M.E., C.E., *Research Professor of Structural Engineering*

STANDING COMMITTEE ON GRADUATE WORK IN MEDICINE AND DENTISTRY

DAVID JOHN DAVIS, M.D., Ph.D., *Chairman*

ROBERT WOOD KEETON, M.S., M.D.

FREDERICK BOGUE NOYES, A.B., D.D.S., D.Sc.

WARREN HENRY COLE, B.S., M.D.

HUGH ALISTER MCGUIGAN, Ph.D., M.D.

OTTO FREDERIC KAMPMEIER, Ph.D., M.D.

WILLIAM HENRY WELKER, A.C., Ph.D., *Secretary*

THE TEACHING FACULTY IN MEDICINE AND DENTISTRY²

1938-1939

DAVID JOHN DAVIS, M.D., Ph.D., *Dean of the College of Medicine, Professor of Pathology, Head of the Department of Pathology, Bacteriology, and Public Health*

WILLIAM HENRY WELKER, A.C., Ph.D., *Professor of Physiological Chemistry and Head of the Department*

HUGH ALISTER MCGUIGAN, Ph.D., M.D., *Professor of Pharmacology, Materia Medica, and Therapeutics, and Head of the Department*

OTTO FREDERIC KAMPMEIER, Ph.D., M.D., *Professor of Anatomy and Head of the Department*

FREDERICK BROWN MOOREHEAD, D.D.S., M.D., M.S., *Professor of Oral Surgery and Head of the Department of Oral and Plastic Surgery and Oral Pathology*

WILLIAM F. PETERSEN, B.S., M.D., *Professor of Pathology*

FREDERICK BOGUE NOYES, A.B., D.D.S., D.Sc., LL.D., *Dean of the College of Dentistry, Professor of Orthodontia, and Director of the Children's Clinic*

¹The administration of the Graduate School is conducted by the Executive Faculty, consisting of the Dean of the Graduate School, three members elected by the Teaching Faculty, and ten additional members appointed by the President of the University after consultation with the Dean and the elected members.

²The Teaching Faculty includes all those who at any time give courses of strictly graduate character. Such courses are accepted for major credit and are numbered one hundred and upwards. For the present such courses are offered by the above faculty.

OLAF BERGEIM, Ph.D., *Associate Professor of Physiological Chemistry*
ALBERT BACHEM, Ph.D., *Professor of Biophysics*
FREDERICK HOWARD FALLS, M.S., M.D., *Professor of Obstetrics and Gynecology, and Head of the Department*
JULIUS HAYES HESS, M.D., *Professor of Pediatrics and Head of the Department*
FRANCIS EUGENE SENEAR, B.S., M.D., *Professor of Dermatology and Head of the Department*
LLOYD ARNOLD, A.M., M.D., *Professor of Bacteriology and Public Health*
WALTER JOHN RICHARD CAMP, M.D., Ph.D., *Professor of Pharmacology, Materia Medica, and Therapeutics*
PAUL LOUIS SCHROEDER, B.S., M.D., *Professor of Criminology, Social Hygiene, and Medical Jurisprudence, Head of the Department, and Director of the Institute for Juvenile Research*
HAROLD DOUGLAS SINGER, M.D., *Professor of Psychiatry, Head of the Department, and Director of the Psychiatric Institute*
HENRY BASCOM THOMAS, B.S., M.D., *Professor of Orthopaedics, Head of the Department, and Director of the Illinois Surgical Institute for Children*
GEORGE BORIS HASSIN, M.D., *Professor of Neurology*
ANDREW WILSON BROWN, Ph.D., *Associate Professor of Criminology, Social Hygiene, and Medical Jurisprudence*
ISAAC SCHOUR, D.D.S., Ph.D., *Professor of Histology and Head of the Department*
ROBERT WOOD KEETON, M.S., M.D., *Professor of Medicine and Head of the Department*
ERNST GELLHORN, M.D., Ph.D., *Professor of Physiology and Physiologist in the Department of Psychiatry*
ISAAC PILOT, B.S., M.D., *Associate Professor of Pathology and of Medicine*
HENRY GEORGE PONCHER, B.S., M.D., *Associate Professor of Pediatrics*
MRS. CARROLL LAFLEUR BIRCH, M.S., M.D., *Assistant Professor of Medicine*
ARTHUR GIDEON COLE, Ph.D., *Assistant Professor of Physiological Chemistry*
ERIC OLDBERG, M.D., Ph.D., *Professor of Neurology and Neurological Surgery, and Head of the Department*
GERHARDT VON BONIN, M.D., *Associate Professor of Anatomy*
CHARLES BERNARD PUESTOW, M.D., Ph.D., *Associate Professor of Surgery*
CARLOS ISAAC REED, Ph.D., *Associate Professor of Physiology*
ALLAN GIBSON BRODIE, D.D.S., M.S., *Professor of Orthodontia and Head of the Department*
RUSSELL DORR HERROLD, B.S., M.D., *Associate Professor of Surgery*
GÉZA DE TAKATS, M.D., M.Surg., *Associate Professor of Surgery*
WARREN HENRY COLE, B.S., M.D., *Professor of Surgery and Head of the Department*
ROBERT GEORGE KESEL, D.D.S., M.S., *Assistant Professor of Dental Pathology and Therapeutics, and Acting Head of the Department*
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MAYNARD KIPLINGER HINE, D.D.S., M.S., *Associate in Dental Pathology and Therapeutics*

GRADUATE WORK IN MEDICINE AND DENTISTRY

Admission

Admission to the Graduate School may be granted to graduates of institutions whose requirements for the bachelor's degree are substantially equivalent to those of the University of Illinois, and to applicants from other institutions approved by the Executive Faculty. Applicants must have secured a scholastic average of at least 3.5, or its equivalent on the University of Illinois scale, in their undergraduate work in order to qualify for admission. Applicants who do not have the 3.5 average in all courses, but who have maintained such an average in the field chosen for graduate work, may be admitted on written recommendation of the head of the department concerned, with the approval of the Committee on Graduate Work in Medicine and Dentistry. In all such cases admission will be to special graduate status. *Admission to the Graduate School does not, however, imply admission to candidacy for an advanced degree, and gives no right or claim to be so admitted. A mere accumulation of "credits" or "grades" is not sufficient.*

Admission to graduate courses may be granted only to those who have had the requisite undergraduate work in those courses or departments. But a student of mature age who satisfies the Director and the Department concerned of his ability to pursue graduate work in a given line may be enrolled in particular graduate courses, without reference to a degree, and permitted to carry on such study or investigation under the direction of a department of the University as the department shall recommend and the Dean approve.

Application blanks for admission may be secured from the Examiner and Recorder for the Chicago Departments, 1853 West Polk Street, Chicago, Illinois. Every applicant must submit with his application for admission an official transcript of his college record.

Registration and Program of Study

The following regulations concerning registration and program of studies are laid out primarily for first-year students. Second-year and third-year graduate students fill out their programs irrespective of the unit value of courses, according to their needs, under the advice of their instructors.

Registration.—Each graduate student must register at the beginning of each semester.

The registration of a new student may be accepted at any time provided the student is prepared to take up courses actually under way. Credit towards the fulfillment of the residence requirement dates, however, from the time of registration and not from the beginning of the semester or year in which the student enters.

The first registration, or that on entrance, is permitted only after the student's application for admission to the Graduate School, setting forth his educational attainments, has been duly approved.

Medical Students and Graduate Study.—If at the beginning of the second semester of his second year a student in the College of Medicine, who has been in residence at least one year, and who has completed all of the required courses of the first three semesters and has maintained an average in all work in Medicine of at least 85%, may be permitted to register for one unit which may count for residence for a master's degree. Only students of excellent record will be allowed this privilege.

Members of the third-year and fourth-year classes in the College of Medicine, who have strong scholastic records, and who have the bachelor's degree, may register for one unit of graduate work per semester, substituting it for one medical course and the electives in the junior year and for the electives in the senior year. From 20 to 25 per cent of the medical students take advantage of this opportunity to become familiar with the methods of research and advanced study.

Failures.—A graduate student who fails in any course in his major subject can not secure his degree in the same year in which the failure occurred. No condition examinations are given graduate students.

Students on the Staff.—Assistants and others on the University staff who undertake to do graduate work are permitted to take an amount of work determined by the

terms of their employment. Such a student, if required by his engagements to teach more than five classes a week or to have laboratory work or supervision exceeding ten hours a week, may not receive his master's degree at the end of one year, nor his doctor's degree at the end of three.

Residence and Work Done Elsewhere.—Continuous residence and study are required of all members of the Graduate School, unless they are granted leave of absence by the Dean, upon recommendation of the professor in charge of their work, for the purpose of carrying on elsewhere studies or investigations in the line of work for their degrees.

Members of the staff who have done graduate work in approved institutions elsewhere may secure credit not to exceed four units towards the master's degree by passing examinations in that work. They may complete the work for the degree by securing at least four units more while registered in the Graduate School for not less than one academic year.

Withdrawal.—If after registration a graduate student wishes to withdraw from any course or to add other work, he must first secure the necessary papers from the Recorder's Office. If he wishes to withdraw from the University he must get clearance papers at the Recorder's Office.

Master's Degrees

Character of Master's Degree.—The master's degree conferred depends upon the character of the bachelor's degree. The usual practice is that A.M. shall follow A.B., and that M.S. shall follow B.S. However, this practice may be departed from in cases where the undergraduate course of study was of a kind for which some reputable institutions in this country give A.B., while others give B.S.

Amount of Work Required.—Candidates for the degree of Master of Arts or Master of Science are required to do at least one full year's work in residence, including a thesis. Four to five units constitute a normal semester program for the master's degree. A minimum of eight units must be completed for the degree. Only first-rate students are permitted to secure a degree with this minimum program. In some departments special examinations are required of candidates for master's degrees. In all cases the student must satisfy the duly approved conditions set by his major and minor departments.

Unless otherwise permitted, every student must take each semester at least one course open to graduate students only (courses numbered 100 and upwards).

Undergraduate courses in Medicine in any department are not accepted as applying toward a graduate degree if the major is in that department.

In the first year of his graduate study each student is required to attend a minimum of four formal class, lecture, or laboratory exercises a week. He may not attend more than twelve a week without special permission.

Grades.—Students' work is graded in five classes, A, B, C, D, and E. The last indicates a failure. "D" indicates unsatisfactory, though passable, work.

A student who receives two units of a grade below "B" during his first year of graduate work may not complete the first year of residence by carrying the minimum program of eight units for the master's degree. Three units of a grade below "B" disqualify a student as a candidate for a degree.

A failure or absence from examination in any course may prevent the conferring of the degree; and, as already indicated, failure in any course in the major field precludes the conferring of the degree in the same year.

Majors and Minors.—A candidate for a master's degree may do all his work in one subject, or he may select a major and one minor, or a major and two minors. A major or a minor denotes the field of knowledge of a department, or such part thereof as constitutes a separate and independent division of that field. For a master's degree a major is at least half the work, or a minimum of four units, for one year. Less than one unit may not be counted as satisfying the requirements of a minor without the approval of the department concerned.

Foreign Language.—The ability to use one or more of the modern languages ordinarily studied in the undergraduate curriculum is desirable for all candidates for the master's degree, and in some lines of study is required. No student will be permitted to acquire residence toward the second year for the doctorate until he has passed the preliminary examination in at least one of these languages.

Master's Thesis.—Each candidate for a master's degree is required to present a

thesis on some subject approved by the professor in charge of his major work and the Executive Faculty of the Graduate School. Such approval, except in the case of students working for master's degrees in summer sessions only, must be secured and the subject of the thesis filed at the office of the Graduate School not later than the beginning of the second half-year of residence. The requirement of a thesis may be waived, however, upon the recommendation of the head of the department in which the student is doing his major work and the approval of the Dean of the Graduate School, provided application to waive the thesis is made at the time for announcing thesis subjects. A student excused from writing a thesis must replace it with additional courses of instruction.

No one will be excused from writing a thesis unless one-half of his program of studies consists of courses numbered 100 and upwards.

The thesis required for a master's degree ordinarily will demand from one to two units of work, and may not exceed three units except by special permission. The thesis must be typewritten, on "thesis paper,"¹ and the title-page must be printed. The thesis in its final form, together with a certificate of approval by the proper officer, must be sent by the professor in charge to the Dean's office at least two weeks before the date on which the degree is to be conferred. No article prepared for another use, or previously published, will be accepted as a thesis. Permission for the publication of the material of a master's thesis should be obtained from the Dean of the Graduate School before such publication is carried out.

Under proper conditions a student may be permitted to complete the last fourth of his work, if devoted to his thesis, under leave of absence for a period not to exceed the equivalent of two semesters. To get such permission the student must have secured proper credit for at least six units; must petition for the privilege; must submit to the Dean an outline of the proposed investigation, approved by the head of his major department; and must submit satisfactory evidence that adequate facilities are available to him at the place where he intends to do the proposed work. Approval on all these points must be obtained one collegiate year before the thesis is due. Immediately following approval the student must register and pay an incidental fee of \$20.00.

A student who has completed all of the residence and course requirements for the master's degree but who is still working on his thesis is required to register for an additional "Thesis" unit of work during the semester or session in which he expects to present himself for the degree. The incidental fee for such registration is \$10.00.

Applications for Degrees.—Each candidate for the degree of Master of Arts or Master of Science shall file an application for the degree on a blank provided for the purpose, to be had at the Secretary's office. For the dates of application and deposition of theses, consult the calendar on page 38.

The Degree of Doctor of Philosophy

Major and Minor Subjects.—A member of the Graduate School who desires to become a candidate for the degree of Doctor of Philosophy is required to pursue a major subject in the department in which his research lies. He is also required to choose one minor subject, or he may choose two. If one minor only is chosen it must be taken in a department of study other than that of the major, and credit for it may be earned by work representing not less than four units, or one-sixth of the total residence required for the doctorate. If two minors are chosen, one must be a subject closely related to the major. With the approval of the adviser it may be a division of the major field of study. The other minor (not less than two units) must, in that case, be taken in a department of study other than that of the major.

Except by special permission of the Dean the preliminary examination in major and minor subjects may not be taken until the minor work has been done.

Method of Computing Residence.—Credit for a full year of graduate work means that the student has during that time devoted all his working time and energy to study of a graduate grade. After the first year of residence credit is not recorded in units, and there is no fixed correspondence between credit and course as in undergraduate work.

Period of Study.—The normal minimum period of study required for the degree of Doctor of Philosophy is three years, during which the student is required to devote all his working time to his studies. All three years must be spent in residence at some

¹No other will be accepted by the Dean. "Instructions for the Preparation of Theses" may be obtained at the Secretary's Office, Room 338, Research Laboratory and Library Building.

accredited educational institution, and either the first two or the last one of the three must be spent at the University of Illinois. The degree is conferred, however, not for residence, during a certain period, but for scholarly attainments and power of investigation, as proved by theses and examinations.

Work Done in Other Universities.—Credit for graduate work done in other universities is not "transferred." However, it may be accepted on examination as equivalent to resident work at the University of Illinois, provided the institution in which it was done is of high standing.

Examinations in Languages.—The student will be required to demonstrate his ability to read French and German and other languages needed in his work. (In special cases the Executive Faculty, upon recommendation of the student's adviser, may substitute for either one of the languages usually required some other language which can be shown to be more useful in that student's professional research.) No student will be permitted to acquire residence towards the second year of graduate study until he has passed the examination in at least one of these languages. Both the examination in French and that in German must be passed before the student is admitted to the preliminary examination in his major and minor subjects.

Examinations in Major and Minors.—Towards the end of his second year of study, or by special permission, at the beginning of his third year (not later than October 15), a student who wishes to become a candidate for the degree must submit to a preliminary examination. This examination is intended to test the student's knowledge of the fields of his major and minor subjects of study only. It is partly oral, and may be wholly so.

The student will not be admitted to his preliminary examination until the faculty is satisfied that he has finished substantially the equivalent of two years of graduate work. He must do a full year's graduate work between his preliminary examination and the completion of his work for the doctorate.

Final Examination.—At least two weeks before the time when the degree is conferred, the candidate must submit to a final examination, given by a committee appointed by the Dean. This examination is primarily on the research work of the student, as embodied in his thesis, but is not confined to that. It extends to the whole field of study of the candidate. It will not be confined to the courses which the candidate has attended in the University of Illinois only, if he has done part of the work elsewhere; nor even to the field covered by the courses, specifically taken in this or other universities; but will be so conducted as to determine whether the candidate has a satisfactory grasp of his major subject as a whole, and a general acquaintance with the fields of knowledge represented by his course of study.

The final examination may not be divided. The examination must be taken all at one time though it requires several sessions.

If after having passed his preliminary examination, he fails in the third year of his study to meet the expectations of the professors in charge of his work, or in any way fails to maintain the standard of scholarship and power of research expected of him, he may be refused admission to the final examination.

Other Examinations.—Before the candidate is admitted to the final examination and the defense of his thesis, he may be required to take any other examination, oral or written, that is thought proper by the various departments in which he has studied.

The above examinations are in addition to those in the courses for which the student is registered. These must be taken at times for which they are set in the examination schedule.

Thesis.—The power of independent research must be shown by the production of a thesis on some topic connected with the major subject of study. The candidate is expected to defend his thesis or dissertation before the members of the faculty, or as many of them as may wish to question him about it, in connection with his final examination.

The subject of the thesis should be chosen not later than the end of the second year of residence and must be submitted for formal approval by the faculty not later than six weeks from the beginning of his third year of residence.

A typewritten copy of the complete thesis, *on thesis paper*, and in final form must be deposited in the office of the Dean for presentation to the examining committee not later than two weeks prior to the final examination, and not less than four weeks before the time when the degree is conferred. At the same time, the candidate must



DENTAL PATHOLOGY AND THERAPEUTICS INFIRMARY



MINOR ORAL SURGERY CLINIC

deposit with the Dean a manuscript of the essential part, or an abstract, or a digest of his thesis, in condition for publication at a cost not to exceed seventy-five dollars (\$75). The manuscript must be sufficient to show the method followed, the evidence used and the conclusions reached in the investigation, and must bear the approval of the department and the Executive Faculty of the Graduate School.

The candidate must pay to the Comptroller before graduation the sum of seventy-five dollars (\$75) out of which the University will print at least one hundred copies of this manuscript for circulation by the University, unless the thesis entire or in abbreviated form is published by the author or is accepted for publication by a standard journal or publisher within a year from the date of graduation. In the latter event, and after one hundred copies have been presented to the University by the writer, the cash deposit shall be returned to him.

The typewritten and printed forms of the thesis must comply with the regulations given in "instructions for the preparation of master's and doctor's theses," copies of which may be obtained at the Secretary's office.

The degree of Doctor of Philosophy is conferred only in June, October, and February.

Fees

Except as noted below, graduate students in medicine and dentistry pay fees as follows:

Matriculation fee	\$10.00
Incidental fee (summer session)	25.00
Students not residents of Illinois pay an incidental fee of	37.50
Incidental fee (semester)	35.00
Students not residents of Illinois pay each semester an incidental fee of	62.50
Late registration fee.—Students who enter the Graduate School after registration day are charged a late registration fee of	5.00
Graduation fee	10.00
For change in study-list	1.00

Partial Schedule.—Students registering for not more than two units pay fees at the rate of \$10.00 per unit, in lieu of the regular incidental fee.

Laboratory fees are assessed to cover the cost of materials used.

For the graduate course in orthodontia in preparation for the practice of orthodontia as a specialty, the yearly tuition fee is \$600, one-third payable at the beginning of the second semester in February, at which time the course opens, one-third in June at the beginning of summer school, one-third in October at the beginning of the first semester. No extra fee will be assessed candidates for the master's degree for an extra half-semester in Orthodontia 101.

Persons on University appointment at a salary of \$1,600 or less, eligible for admission to University work, or on scholarship or fellowship appointment in the Graduate School, are exempt from the payment of incidental and laboratory fees in courses counting for graduate credit.

For information concerning the privileges of deferring fees, see page 16 of this circular.

All graduate students who have not matriculated as undergraduates at the University of Illinois pay the matriculation fee on entrance.

All graduate students pay the graduation fee on being recommended for their degrees.

Library

Adequate library facilities are essential to the prosecution of graduate work and research. In the library may be found files of journals, monographs, separates, and standard texts supplying nearly every need.

Fellowships

Four research fellowships are awarded annually for one year in the fields of medicine and dentistry in Chicago at a stipend of \$1,200 per year (calendar year with one month's vacation). Fellows are eligible for re-appointment in competition with the new applicants.

Candidates for these fellowships must have completed a training of not less than

eight years beyond high school graduation. This training may have been acquired in any one of the following ways, or the equivalent thereof:

1. Work leading to the B.S. and M.D. degrees. (In some instances the candidates would have the M.S. degree, or an additional year or two of hospital training beyond the interne year.)
2. Work leading to the B.S., M.S., and D.D.S. degrees.
3. Work leading to the B.S. or A.B. degree in a four-year collegiate course and to the D.D.S. degree.
4. Work leading to the B.S., D.D.S., and M.D. degrees.

Candidates should indicate the field of research in which they are interested and submit complete transcripts of their scholastic credits, together with the names of three former science teachers as references. March 1 is the dead line for acceptance of applications. Announcement of the fellowship awards will be made April 1, becoming effective September 1.

Mail applications to the Secretary of the Committee on Graduate Work in Medicine and Dentistry, 1853 West Polk Street, Chicago, Illinois.

GRADUATE COURSES IN MEDICINE AND DENTISTRY

ANATOMY

101. *Advanced Anatomy.*—The work may take the direction either of macroscopic or of microscopic anatomy, or of both, according to the student's major problem: in macroscopic anatomy, a detailed redisssection of the human body, or any of its parts; in microscopic anatomy (embryology, cytology, histology, etc.), a consideration of morphological changes in the organism which are directly correlated with normal processes, such as reproduction, differentiation, nutrition, growth, variation, regulation, regeneration, activity, secretion, rest, fatigue, senility. (Work in the laboratory for tissue culture in association with Assistant Professor ZECHEL). Course designed for students choosing anatomy as a minor, and for students preparing for individual research in anatomy. One to two units. Professor KAMPMEIER, Associate Professor VON BONIN, Assistant Professor WEBB.
103. *Individual Research.*—In embryology, cytology and histology, neurology, anthropology and biometrics, experimental morphology, functional and applied anatomy. One to three units. Professor KAMPMEIER, Associate Professor VON BONIN, Assistant Professor WEBB.

DENTAL HISTOLOGY

101. *Advanced Dental Histology.*—One or two units. Professor SCHOUR.
102. *Research in Microscopic Anatomy (Teeth and Related Tissues).*—One to three units. Professor SCHOUR.
103. *Experimental Histophysiology of Teeth and Investing Tissues.*—One to three units. Professor SCHOUR.

DENTAL PATHOLOGY AND THERAPEUTICS

101. *Advanced Therapeutics.*—One or two units. Assistant Professor KESEL, Dr. HINE.
103. *Therapeutic Research.*—One or two units. Assistant Professor KESEL, Dr. HINE.

DERMATOLOGY

101. *Research in Dermatology.*—One to three units. Professor SENEAR.

JUVENILE BEHAVIOR

101. *Research in Juvenile Behavior.*—One to three units. Professor SCHROEDER.
102. *Advanced Work in Juvenile Behavior.*—One to three units. Professor SCHROEDER.
103. *Special Abilities and Disabilities.*—One or two units. Associate Professor BROWN.

104. *Psychological Tests*.—One or two units. Associate Professor BROWN.
105. *Psychology of Behavior Problems*.—One or two units. Associate Professor BROWN.
106. *Field Work in Criminology*.—One to three units. Professor SCHROEDER.

Training in clinical psychology is provided by courses offered at the Institute for Juvenile Research in Chicago. Students who have pursued requisite graduate courses in the Department of Psychology at Urbana may do part of their work at the Institute for Juvenile Research under the following conditions: The prerequisite to these courses is recommendation by the Department of Psychology and one year of graduate work with a major in psychology, or, in case of especially qualified students who have majored in psychology as undergraduates, one semester of graduate work. The minimum period of attendance at the Institute necessary for the Master of Arts degree is six months; and for the Doctor of Philosophy degree, one academic year. Recommended minors are education and sociology.

LARYNGOLOGY, RHINOLOGY, AND OTOLOGY

101. *Research in Laryngology, Rhinology, and Otology*.—One to three units. Professor LEDERER.

MEDICINE

101. *Research in Medicine*.—One to three units. Professor KEETON, Assistant Professor BIRCH.

NEUROLOGY AND NEUROLOGICAL SURGERY

101. *Research in Neurology*.—One to three units. Professor HASSIN.
102. *Research in Neurological Surgery*.—One to three units. Professor OLDBERG.

OBSTETRICS AND GYNECOLOGY

101. *Research in Obstetrics and Gynecology*.—One to three units. Professor FALLS.

OPHTHALMOLOGY

101. *Research in Ophthalmology*.—One to three units.

ORAL SURGERY

101. *Pathology of Mouth*.—One or two units. Professor MOOREHEAD, Assistant Professor LADD.
103. *Oral Surgery*.—Two units. Professor MOOREHEAD.

ORTHODONTIA

101. *Orthodontia*.—One to three units. Professors BRODIE and NOYES.

Graduate students in orthodontia who desire to become candidates for the master's degree are required to complete two semesters and a summer of the organized orthodontia program and a minimum of one-half time for an extra semester in research.

ORTHOPAEDICS

101. *Research in Orthopaedics*.—One to four units. Professor THOMAS.

PATHOLOGY AND BACTERIOLOGY

101. *Advanced Pathogenesis*.—One to three units. Professors DAVIS, PETERSEN, and ARNOLD, Associate Professor PILOT.
103. *Individual Research*.—One to four units. Professors DAVIS, PETERSEN, and ARNOLD, Associate Professor PILOT.

PEDIATRICS

101. *Research in Pediatrics*.—One to three units. Professor HESS, Associate Professor PONCHER.

PHARMACOLOGY

101. *Advanced Pharmacodynamics*.—One to three units. Professors McGUIGAN and CAMP.
 103. *Research in Pharmacodynamics*.—One to three units. Professors McGUIGAN and CAMP.

PHYSIOLOGICAL CHEMISTRY AND METALLURGY

101. *Advanced Biological Chemistry*.—Biochemical methods of research, biological colloids, enzyme action, and metabolism. One or two units. Professor WELKER, Associate Professor BERGEIM, Assistant Professor COLE.
 102. *Metallurgical Research*.—One or two units. Professor WELKER.
 103. *Biochemical Research*.—One or two units. Professor WELKER, Associate Professor BERGEIM, Assistant Professor COLE.

PHYSIOLOGY

101. *Research in Physiology*.—One to three units. Professors WAKERLIN and GELLHORN, Associate Professor REED.
 102. *Research in Biophysics*.—One to three units. Professor BACHEM.
 103. *Seminar in Selected Fields*.—One unit per semester. Professors WAKERLIN, BACHEM, and GELLHORN, Associate Professor REED.
 104. *Current Literature Seminar*.—One-half unit per semester. Recommended for all graduate students in physiology. Professors WAKERLIN, BACHEM, and GELLHORN, Associate Professor REED.

PSYCHIATRY

101. *Research in Psychiatry*.—One to three units. Professor SINGER.

SURGERY

101. *Research in Surgery*.—One to three units. Professor COLE, Associate Professors HERROLD, DE TAKATS, and PUESTOW.

GRADUATE SCHOOL DEGREES CONFERRED, 1938

Degree of Doctor of Philosophy

Conferred in February, 1938

IN BACTERIOLOGY

G. HOWARD GOWEN, B.S., M.D., Northwestern University, 1926; M.S., 1933. Analysis and appraisal of public health department of LaSalle, Peru, and Oglesby.

Conferred in June, 1938

IN PHARMACOLOGY

VIRGIL ARNETT GANT, B.S., M.S., 1921, 1932. Lead poisoning in human beings.
 ROY KENNETH SNYDER, B.S., M.S., B.S., 1929, 1934, 1935. The chemistry and pharmacology of the soluble constituents of ampul glass.

IN PHYSIOLOGICAL CHEMISTRY

CECIL CLAUDE HARVEY, B.S., University of Louisville, 1929; M.S., University of Chicago, 1931. The effect of intravenous injection of crystallized squash seed globulin on the excretion of the squash seed globulin and blood proteins in the urine.

IN PSYCHOLOGY

RALPH PHILLIP DARLING, A.B., A.M., 1932, 1933. Autonomic action in relation to personality traits of children in a behavior clinic.

Conferred in October, 1938

IN DERMATOLOGY

THEODORE CORNBLEET, B.S., M.D., St. Louis University, 1921, 1923; M.S., 1931. The excretion of bromides through the skin.

Degree of Master of Arts

Conferred in June, 1938

IN PSYCHOLOGY

ELSA HORTENSE ROMYN BARBER, A.B., University of South Africa, 1921

Degree of Master of Science

Conferred in February, 1938

IN BACTERIOLOGY

EMILY REYNOLDS JONES, B.S., 1936

ELLADEANE KORANDO SHOOP, B.Ed., Southern Illinois State Normal University, 1926

IN JUVENILE BEHAVIOR

FRANCES CRANDELL PERCE, A.B., Smith College, 1928

IN PHARMACOLOGY

ELMER GUENTHER KING, B.S., 1936

IN MEDICINE

LOUIS ROBERT LIMARZI, B.S., M.D., 1928, 1931

Conferred in June, 1938

IN BACTERIOLOGY

MARY LOUISE BROWN, A.B., 1935

JOHN WESLEY ELAM, JR., B.S., Lewis Institute, 1934; B.S., 1937

IN DENTAL PATHOLOGY AND THERAPEUTICS

MARSHALL FREDERICK GRUNWALD, B.S., D.D.S., 1933, 1935

IN MEDICINE

ROBERT JOSEPH JENSIK, B.S., 1936

ROBERT ALISTER MCGUIGAN, B.S., Northwestern University, 1932; M.D., McGill University, 1937

MAURICE DAVID PEARLMAN, B.S., 1936

IN ORTHODONTIA

WADE RICHARD PLATER, D.D.S., 1924

IN ORTHOPAEDICS

CLAUDE NEEDHAM LAMBERT, A.B., University of Utah, 1924; M.D., University of Chicago, 1928

IN PATHOLOGY

BUDD CLARKE CORBUS, JR., A.B., University of Wisconsin, 1929; B.M., M.D., Louisiana State University, 1936, 1937

IN PEDIATRICS

CHARLES HENRY STUBENRAUCH, JR., B.S., 1936

IN PHARMACOLOGY

LORING SMITH HELFRICH, B.S., Knox College, 1932

IN PHYSIOLOGICAL CHEMISTRY

EDWARD CHARLES WACH, Ph.G., D.D.S., 1917, 1923

IN PHYSIOLOGY

EDWARD HOWARD LAMBERT, B.S., 1936

IN PSYCHIATRY

ISRAEL RONALD SONENTHAL, B.S., M.D., Northwestern University, 1932, 1935

Conferred in October, 1938

IN MEDICINE

EMIL MARO SCHLEICHER, A.B., Wayne University, 1935

IN PHARMACOLOGY

FRANK THOMAS MAHER, B.S., 1937

FREDERICK STEIGMANN, B.S., M.D., 1928, 1932

IN PSYCHIATRY

MAURICE KAPLAN, B.S., M.D., 1932, 1935

GRADUATE STUDENTS IN MEDICINE AND DENTISTRY

1938-1939

EXPLANATION.—“S” indicates attendance during the Summer Session; “I,” during the First Semester; “II,” during the Second Semester. Degrees are from the University of Illinois unless otherwise noted.

Abrams, Herbert Kerman, Chicago.—Pathology (S.I.II.); B.S., 1936.

Adams, James William, East Cleveland, Ohio.—Orthodontia (S.I.II.); D.D.S., Ohio State University, 1936.

Angela, Frances, Chicago.—Bacteriology (S.I.I.); B.S., Michigan State College, 1924.

Baldridge, John Philip, Jr., Westerville, Ohio.—Orthodontia (I.I.); D.D.S., Ohio State University, 1935.

Bartoli, Adolph, La Salle.—Physiology (S.I.II.); B.S., 1937.

Becker, Maurice Loren, Chicago.—Surgery (S.); B.S., M.D., 1932, 1934.

Bedinger, Paul Lincoln, Evanston.—Medicine (I.); A.B., B.S., M.D., M.S., 1931, 1934, 1935, 1939.

Beiser, Helen Ruth, Chicago.—Bacteriology (II.); B.S., University of Arizona, 1935.

Bell, Julius Nathaniel, Chicago.—Physiology (I.); B.S., 1938.

Berg, Max, Chicago.—Pathology (S.I.II.); B.S., M.S., M.D., 1932, 1934, 1935.

Berman, David, Chicago.—Dental Pathology and Therapeutics (I.I.I.); B.S., D.D.S., 1934, 1935.

Black, Arnold, Chicago.—Bacteriology (I.II.); B.S., 1938.

Blaurock, Melvin Frank, Oak Park.—Psychiatry (S.I.); B.S., M.D., M.S., 1934, 1935, 1939.

Bohdan, Leslie Mathew, Monmouth.—Physiology (II.).

Brebis, George Joseph, Cicero.—Medicine (I.II.); B.S., 1937.

Briskin, Harold Louis, Chicago.—Pathology (II.).

Brodie, Allan Gibson, Park Ridge.—Anatomy (I.I.); D.D.S., University of Pennsylvania, 1919; M.S., 1934.

Buchholz, Alexander Maurice, Chicago.—Physiological Chemistry (S.I.II.); B.S., 1937.

Buhrmester, Catherine Caroline, Nashville.—Physiological Chemistry (S.II.); B.S., M.S., 1923, 1930.

Carstens, Herman Paul, Chicago.—Physiology (S.); B.S., University of Chicago, 1932.

Chastain, Stephen Matthew, Chicago.—Bacteriology (S.I.II.); B.S., 1937.

Chobot, George Robert, Chicago.—Physiology (S.I.II.); B.S., 1938.

Cohen, Eli Bertram, Chicago.—Physiological Chemistry (I.II.); B.S., University of Chicago, 1938.

Cohen, Harold Robert, Chicago.—Physiological Chemistry (I.II.); B.S., University of Chicago, 1938.

Cohen, Seymour Robert, Chicago.—Physiological Chemistry (I.II.); B.S., University of Chicago, 1938.

Cohn, Arnold Louis, Chicago.—Physiology (I.II.); B.S., 1938.

Crump, Mary Jane, Montgomery, Alabama.—Bacteriology (I.I.); A.B., Huntingdon College, 1937; A.M., University of Alabama, 1938.

Decker, Sam, Chicago.—Bacteriology (S.I.II.); B.S., University of Chicago, 1936.

Diamond, Alfred Aron, Chicago.—Neurological Surgery (I.II.).

Dietz, Victor Hugo, Chicago.—Bacteriology (I.II.); D.D.S., Washington University, 1935; B.S., St. Louis University, 1938.

Domm, Sheldon Edward, Naperville.—Physiology (S.I.II.); A.B., North Central College, 1934; A.M., 1935.

Droba, Henry John, Chicago.—Oral Surgery (I.II.); D.D.S., 1928.

Dubé, Paul Henderson, Chicago.—Orthopaedics (S.I.II.); A.B., Ohio State University, 1931; M.D., Western Reserve University, 1935.

Dulin, Theodore Jacob, Chicago.—Psychiatry (I.); B.S., M.D., 1936, 1938.

Dworin, Jack Walter, Chicago.—Pathology (I.); B.S., 1937.

Eggert, Floyd Herman, Kenosha, Wisconsin.—Bacteriology (I.); B.S., University of Wisconsin, 1926; M.S., 1933.

Ehrlich, Joseph Charles, Chicago.—Medicine (S.I.); B.S., Northwestern University, 1930; M.D., Rush Medical College, 1935.

Ehrlich, Norman James, Chicago.—Physiological Chemistry (S.I.II.); B.S., 1937.

Elam, John Wesley, Jr., Chicago.—Bacteriology (S.I.II.); B.S., Lewis Institute, 1934; B.S., M.S., 1937, 1938.

Elman, Earl Samuel, Chicago.—Orthodontia (S.I.II.); D.D.S., Northwestern University, 1937.

Engel, Milton Baer, Chicago.—Orthodontia (I.); D.D.S., 1938.

Engle, Harold Martin, Chicago.—Dermatology (I.I.); B.S., 1937.

Engstrom, Robert Birger, Chicago.—Surgery (S.I.); A.B., 1935.

Fabian, Frank Carl, Chicago.—Oral Surgery (I.); D.D.S., 1932.

Feinberg, Milton, Chicago.—Medicine (I.II.); B.S., 1938.

Finger, Earl Richard, Beloit, Wisconsin.—Pharmacology (I.); B.S., University of Wisconsin, 1938.

Fischer, Charles John, Chicago.—Orthodontia (I.); D.D.S., Chicago College of Dental Surgery, 1928; B.S., De Paul University, 1938.

Flanagan, James Brierton, Chicago.—Physiology (I.I.).

Freida, Vincent Charles, Chicago.—Obstetrics and Gynecology (I.II.); M.D., 1935.

Gagnon, James Albert, Chicago.—Histology (I.II.); B.S., D.D.S., 1931, 1933.

Gaines, Walter, Chicago.—Physiology (I.II.); B.S., 1938.

Gardner, Leon Philip, Joliet.—Surgery (I.I.); B.S., 1937.

Gecht, Adele, Chicago.—Physiology (I.II.); B.M.E., Northwestern University, 1933.

Genitis, Valeria Erena, Chicago.—Pediatrics (S.I.); B.S., De Paul University, 1931; M.D., Loyola University, 1937.

Gerber, Alex, Chicago.—Orthopaedics (I.I.).

Gerber, Harold Xen, Chicago.—Physiological Chemistry (S.I.II.); B.S., 1937.

Gernon, John Talbot, Chicago.—Surgery (S.I.II.); B.S., M.D., M.S., 1927, 1929, 1937.

Ginsberg, Robert, Chicago.—Medicine (I.I.).

Gittelsohn, Lloyd Arion, Chicago.—Medicine (I.I.).

Glassman, Jacob Abraham, Chicago.—Anatomy (S.I.); B.S., M.D., 1933, 1936.

Goldberg, Milton L., Chicago.—Medicine (I.I.).

Goldstein, Hyman H., Chicago.—Psychiatry (I.II.); B.S., M.D., 1932, 1935.

Gomberg, Bernard, Chicago.—Medicine (I.I.).

Goodman, Daniel Herschold, Galesburg.—Physiological Chemistry (I.II.); A.B., Brooklyn College, 1935; M.S., B.S., 1936, 1939.

Gorecki, Ferdinand, South Standard.—Pathology (I.I.); B.S., 1938.

Greenberg, Ralph Jerome, Chicago.—Physiology (I.I.); B.S., University of Chicago, 1938.

Griep, Ernst August, Quincy.—Pharmacology (I.I.); B.S., 1938.

Grimes, Clyde Don, Gurnee.—Pharmacology (I.II.); A.B., University of Wichita, 1934.

Grissom, Robert Leslie, Decatur.—Surgery (I.I.).

Grosskreutz, Doris, La Salle.—Juvenile Behavior (I.I.).

Hagele, Marie Anna, Chicago.—Bacteriology (I.); B.S., Lewis Institute, 1931; M.S., M.D., 1936, 1938.

Hailman, Harold Frank, Chicago.—Medicine (S.I.II.); B.S., 1938.

Hamilton, Samuel Logan, Jr., Chicago.—Physiology (I.I.); B.S., St. Viator College, 1937.

Hansen, Clarence Wyland, Chicago.—Dental Pathology and Therapeutics (I.II.); D.D.S., 1929.

Hanson, John Olaf, Chicago.—Surgery (S.I.II.); B.S., M.D., 1934, 1937.

Harp, Charles Harrison, Clinton.—Bacteriology (I.II.); B.S., Illinois Wesleyan University, 1936.

Harrison, Donald James, Chicago.—Orthodontia (S.I.II.); D.D.S., Marquette University, 1934.

Hart, Florence Eunice, Oak Park.—Bacteriology (S.I.); B.S., 1937.

Heath, Arthur Edwin, Downers Grove.—Bacteriology (I.I.); B.S., 1932.

Heilbrunn, Gert, Elgin.—Neurological Surgery and Neurology (I.I.); M.D., University of Berne, 1935.

Heimovitz, Jack S., Chicago.—Surgery (I.I.); B.S., 1938.

Herzberg, Fred, Chicago.—Dental Histology (S.I.II.); B.S., D.D.S., Northwestern University, 1932.

Hess, Walter Richard, Chicago.—Bacteriology (I.I.); B.S., University of Nebraska, 1927; M.S., 1937.

Heyer, Howard Eugene, Chicago.—Medicine (I.I.); B.S., M.D., 1935, 1938.

Hibbert, George Fielding, Chicago.—Obstetrics and Gynecology (S.I.); B.S., University of Chicago, 1918; M.D., Rush Medical College, 1921.

Hinman, Glidden, Winnetka.—Bacteriology (I.II.); A.B., 1905.

Hoffman, Murray Mitchell, Chicago.—Dental Histology (S.I.II.); B.S., D.D.S., 1935, 1937.

Hoop, William Tomlin, Shelbyville, Indiana.—Orthodontia (I.I.); D.D.S., Indiana University School of Dentistry, 1938.

Howe, Gertrude Elizabeth, Chicago.—Pharmacology (S.I.II.); B.S., University of Chicago, 1936.

Hughes, Edgar O., Champaign.—Surgery (S.I.II.); B.S., 1938.

Hunter, Lillian Rose, Rockford.—Bacteriology (S.I.II.); A.B., Rockford College, 1932.

Ireneus, Carl, Jr., Chicago.—Surgery (I.II.); A.B., B.S., M.D., 1931, 1933, 1936.

Jackson, Mildred Ranney, Monmouth.—Pharmacology (S.I.II.); B.S., Monmouth College, 1936.

Joffe, Herman, Chicago.—Surgery (S.); B.S., 1936.
 Jones, Emily Reynolds, Oreana.—Bacteriology (II.); B.S., M.S., 1936, 1938.
 Jourdan, Harve William, Newton.—Medicine (I.II.); B.S., 1938.
 Kademan, Selma, Chicago.—Physiology (II.).
 Kanter, Lester, Chicago.—Surgery (II.); B.S., 1938.
 Kaplan, Maurice, Chicago.—Psychiatry (I.); B.S., M.D., 1932, 1935, 1938.
 Kiefer, Joseph Henry, Chicago.—Surgery (I.II.); B.S., B.M., M.D., Northwestern University, 1931, 1934, 1935.
 Kiely, William Francis, Chicago.—Physiology (II.).
 King, Elmer Guenther, Chicago.—Pharmacology (S.I.II.); B.S., M.S., 1936, 1937.
 Kirch, Ernest Rudolf, Chicago.—Physiological Chemistry (S.I.II.); Ph.C., 1928; B.S., Loyola University, 1931; M.S., University of Chicago, 1934.
 Klein, Arthur Deo, Gillespie.—Physiology (I.II.); B.S., 1936.
 Krause, Charles Donald, Chicago.—Obstetrics and Gynecology (I.II.); M.D., 1937.
 Kreshover, Seymour Jacob, Chicago.—Pathology (I.II.); A.B., New York University, 1934; D.D.S., University of Pennsylvania, 1938.
 Kronenberg, Milton Henry, Chicago.—Bacteriology (I.II.); B.S., M.D., 1922, 1926.
 Kruger, Sam, Chicago.—Neurology (I.II.); B.S., 1938.
 Leavitt, Arnold Harold, Champaign.—Pathology (II.); A.B., B.S., 1937, 1938.
 Lemberg, Louis, Chicago.—Pathology (II.); B.S., 1938.
 Levine, Philip, Newark, New Jersey.—Orthodontia (II.); D.D.S., Georgetown University, 1938.
 Levine, Victor, Chicago.—Pathology (I.II.); B.S., University of Chicago, 1925; M.D., Rush Medical College, 1929, M.S., 1934.
 Levitin, Emil David, Peoria.—Psychiatry (I.II.); A.B., Bradley Polytechnic Institute, 1932; M.D., Rush Medical College, 1937.
 Lindblad, Victor Yngve, Chicago.—Pharmacology (I.II.); B.S., 1938.
 Litwiler, Otto Bryan, Hopedale.—Oral Surgery (I.II.); B.S., D.D.S., 1928.
 MacFate, Robert Preston, Wheaton.—Physiological Chemistry (II.); Ch.E., Lehigh University, 1925; M.S., 1929.
 Madejczyk, Edward Valentine, Chicago.—Physiological Chemistry (II.).
 Madison, Ruth Virginia, Chicago.—Physiological Chemistry (I.II.); B.S., 1937.
 Maher, Frank Thomas, Beardstown.—Pharmacology (S.I.II.); B.S., M.S., 1937, 1938.
 Mann, Lawrence Stanley, Chicago.—Physiological Chemistry (S.I.II.); B.S., 1937.
 Marks, Sidney, Chicago.—Physiology (I.); B.S., 1938.
 Martin, John Stephen, Chicago.—Pediatrics (S.I.II.); Ph.G., B.S., 1926, 1937.
 Maslowitz, Max, Chicago.—Physiological Chemistry (I.II.); B.S., 1938.
 Mason, Herman Charles, Chicago.—Bacteriology (I.II.); B.S., University of Chicago, 1932; M.S., 1936.
 Maurelis, William Peter, Chicago.—Pathology (I.II.); B.M., M.D., University of Minnesota, 1936, 1937.
 McDonald, Audrey Jane, Roodhouse.—Physiological Chemistry (II.); B.S., Illinois Wesleyan University, 1936.
 McKeever, Lewis Goodell, Gibson City.—Medicine (S.I.II.); A.B., Illinois Wesleyan University, 1935.
 Meyer, Esther, Chicago.—Bacteriology (S.I.II.); Ph.G., 1924; B.S., University of Michigan, 1930; M.S., 1933.
 Miller, David Sidney, Chicago.—Surgery (S.I.II.); B.S., M.S., M.D., 1930, 1932, 1933.
 Miller, Jeanne Frances, Chicago.—Bacteriology (I.II.); B.S., M.S., 1936, 1937.
 Mixter, Russell Lowell, Wheaton.—Anatomy (S.I.II.); A.B., Wheaton College, 1928; M.S., Michigan State College, 1930.
 Montgomery, Max Malcolm, Chicago.—Pathology (I.II.); B.S., University of Iowa, 1927; M.D., 1931.
 Mosny, Stephen Daniel, Jr., Chicago.—Physiology (I.II.); B.S., 1938.
 Niederman, Dorothy Jean, Chicago.—Pediatrics (S.I.II.); B.S., 1937.
 Novak, Leo Joseph, Chicago.—Physiological Chemistry (I.II.); A.B., 1935.
 Oliver, James Vincent, Chicago.—Surgery (I.); M.D., 1928.
 Osgood, Bessie Genevieve, Milford.—Physiological Chemistry (I.II.); A.B., B.S., Indiana Central College, 1932, 1933.
 Palmer, Edward, Chicago.—Surgery (S.I.II.); Ph.B., De Paul University, 1928; M.D., 1937.
 Patras, Mary Cornelia, Chicago.—Physiology (S.I.); B.S., M.D., Loyola University, 1932, 1935.
 Paul, Jerome Thomas, Chicago.—Medicine (I.II.); B.S., M.D., Loyola University, 1935, 1937.
 Peckler, David Alfred, Chicago.—Physiology (S.); B.S., Central Y.M.C.A. College, 1937.
 Perkins, Roy Frank, Chicago.—Pathology (II.).
 Perlmutter, Harold Morris, Chicago.—Medicine (S.I.II.); B.S., 1938.
 Pierce, Virginia Kipke, Chicago.—Obstetrics and Gynecology (S.I.II.); B.S., 1938.
 Pizer, Esther Ruth, Chicago.—Physiology (II.).
 Plattner, Edward Bernard, East St. Louis.—Physiology (S.I.II.); B.S., 1937.
 Radde, Bernard Carl, Chicago.—Physiology (I.); A.B., Valparaiso University, 1932; B.S., D.D.S., University of Nebraska, 1938.
 Rapoport, Anita Esther, Chicago.—Bacteriology (S.I.II.); B.S., Lewis Institute, 1934.
 Rest, David, Chicago.—Neurology (S.I.II.); B.M.E., Northwestern University, 1931.
 Reuther, Theodore Ferdinand, Effingham.—Surgery (II.); B.S., M.D., 1921, 1924; M.S., University of Pennsylvania, 1938.
 Reynolds, James Stedman, Dwight.—Pathology (II.); B.S., M.D., 1933, 1936.
 Rheingold, Joseph Cyrus, Chicago.—Psychiatry (I.II.); B.S., M.D., M.S., 1927, 1930, 1930.
 Richmond, Julius Benjamin, Chicago.—Physiology (S.I.II.); B.S., 1937.
 Rossiter, Lewis James, Oak Park.—Surgery (I.II.); A.B., 1935.
 Roth, Robert Russell, Oak Park.—Physiological Chemistry (II.); B.S., Northwestern University, 1937.
 Rubenstein, Lawrence Hyman, Chicago.—Physiological Chemistry (II.).
 Rubin, Moses Bertrand, Brooklyn, New York.—Orthodontia (II.); D.D.S., Columbia University, 1926.
 Sachs, Mandel, Cicero.—Psychiatry (S.I.II.); M.D., 1936.
 Samors, Josef Joel, Chicago.—Oral Surgery (I.II.); D.D.S., 1927.
 Sarnat, Bernard George, Chicago.—Dental History (S.); B.S., M.D., University of Chicago, 1933, 1937.
 Schleicher, Emil Maro, Chicago.—Medicine (S.II.); A.B., Wayne University, 1935; M.D., 1938.
 Schoenwetter, Robert Francois, Beaver Dam, Wisconsin.—Orthodontia (II.); D.D.S., Marquette University, 1938.
 Scuderi, Carl Salvadore, Chicago.—Surgery (S.I.II.); B.S., M.D., M.S., 1926, 1929, 1935.
 Seron, Suren Manoog, Joliet.—Oral Surgery (I.II.); B.S., D.D.S., 1930, 1932.
 Shaffer, William Thurman, Danville.—Surgery (S.I.II.); B.S., 1937.
 Shapiro, Arthur Joseph, Chicago.—Surgery (I.II.); B.S., 1938.
 Shapiro, Maynard Irwin, Chicago.—Physiological Chemistry (II.); B.S., 1937.
 Sharpe, Kenneth Palmer, Chicago.—Dental Pathology and Therapeutics (I.II.); B.S., D.D.S., 1934, 1936.
 Sheets, Raymond F., Carthage.—Physiology (S.I.II.); A.B., Carthage College, 1936.

Shulruff, Joseph T., Chicago.—Bacteriology (I.II.); B.S., 1938.

Siegel, Morris, Chicago.—Pathology (II.); B.S., 1938.

Silbert, Aviva, Chicago.—Physiology (II.).

Singer, Winifred Mildred, Chicago.—Bacteriology (S.I.II.); A.B., University of Southern California, 1936.

Skorodin, Bernard, Chicago.—Psychiatry (I.II.); B.S., M.D., M.S., 1930, 1931, 1939.

Slaughter, Danely Philip, Chicago.—Surgery (I.); B.S., M.D., 1933, 1936.

Smith, Margaret Elizabeth, Chicago.—Bacteriology (S.I.II.); Ph.B., University of Chicago, 1919; M.S., University of Wisconsin, 1924.

Sonenthal, Israel Ronald, Chicago.—Psychiatry (S.I.II.); B.S., M.D., Northwestern University, 1932, 1935; M.S., 1938.

Spellberg, Mitchell Abraham, Chicago.—Medicine (S.I.II.); B.S., M.D., Loyola University, 1933, 1934; M.S., 1939.

Spence, John Monroe, Chicago.—Dental Histology (I.II.); B.S., D.D.S., M.S., 1933, 1935, 1937.

Spinka, Isadore, Chicago.—Physiological Chemistry (II.); B.S., M.D., 1935, 1938.

Stapf, William Charles, Ashland, Kentucky.—Orthodontia (II.); D.D.S., University of Louisville, 1934.

Steck, Irving Elihu, Chicago.—Physiology (S.); B.S., M.S., M.D., 1930, 1932, 1933.

Steigmann, Frederick, Chicago.—Medicine (S.I.II.); B.S., M.D., M.S., 1928, 1932, 1938.

Stokes, Robert Fred, Cicero.—Physiology (II.).

Stone, Leonard, Chicago.—Physiological Chemistry (I.); B.S., College of the City of New York, 1936.

Templeton, Roy DuPont, Elmhurst.—Pathology (S.I.); B.S., University of Chicago, 1923.

Teplitz, Zelda, Chicago.—Bacteriology (I.II.); B.S., University of Chicago, 1938.

Teton, Joseph B., Chicago.—Obstetrics and Gynecology (II.); B.S., M.D., 1932, 1934.

Thompson, John Robert, Chicago.—Orthodontia (II.); B.S., D.D.S., M.S., 1934, 1934, 1937.

Tinsley, Milton, Chicago.—Neurological Surgery (S.I.II.); B.S., M.D., 1933, 1936.

Turner, A. Willard, Elgin.—Bacteriology (I.II.); A.B., 1932.

Turner, Samuel Julius, Chicago.—Obstetrics and Gynecology (II.); B.S., M.D., 1934.

Tylman, Stanley Daniel, Lombard.—Physiological Chemistry (I.II.); D.D.S., M.S., Northwestern University, 1918, 1930; B.S., Lewis Institute, 1925.

Ulloa, Margarita Ester, Chicago.—Dental Pathology and Therapeutics (II.); B.S., D.D.S., University of Chile, 1926; D.D.S., 1932.

Ury, Boris, Chicago.—Neurological Surgery and Neurology (I.II.); B.S., University of Chicago, 1935.

Vaichulis, John Anthony, Chicago.—Pharmacology (I.); B.S., Notre Dame University, 1929; M.S., 1935.

Vicher, Edward Ernest, Berwyn.—Bacteriology (S.I.II.); B.S., M.S., 1935, 1937.

Visscher, Lois Helena, Evanston.—Surgery (II.); B.S., 1938.

Wade, Chester, Chicago.—Psychiatry (I.II.); B.S., M.S., M.D., 1934, 1936, 1937.

Wall, Harry Charles, Chicago.—Medicine (S.I.); M.D., Rush Medical College, 1937; M.S., 1939.

Warner, Muriel Estelle, Chicago.—Bacteriology (I.II.); B.S., University of Chicago, 1938.

Weber, Richard Denis, Chicago.—Medicine (I.II.); B.S., M.D., Northwestern University, 1937.

Weinberg, Jack, Chicago.—Psychiatry (II.); M.D., B.S., 1937, 1938.

Weinglass, Albert Robert, Chicago.—Physiology (I.II.); B.S., 1938.

Weir, Homer Fauquier, Decatur.—Pediatrics (I.II.); A.B., 1935.

Weisberg, William Wiener, Chicago.—Pathology (II.); A.B., 1936.

Weiss, Alvin, Chicago.—Physiological Chemistry (I.); B.S., 1937.

Weiss, Eugene, Chicago.—Medicine (I.II.); B.S., 1938.

Weiss, Manuel Bertrand, Chicago.—Obstetrics and Gynecology (II.); B.S., 1938.

White, Harvey, Chicago.—Physiology (I.II.); B.S., 1938.

Whitted, Vera Grace, Gilman.—Education (S.I.); A.B., 1935.

Winer, Jane Ruth, Chicago.—Pathology (I.II.); B.S., 1938.

Wittert, Victor, Chicago.—Oral Surgery (I.II.); B.S., D.D.S., 1932, 1934.

Wolf, Glen Clarence, Naperville.—Bacteriology (S.I.II.); A.B., 1936.

Wolff, John Robert, Chicago.—Obstetrics and Gynecology (S.); M.D., Northwestern University, 1931.

Wright, William Henry, Chicago.—Orthopaedics (I.); B.S., 1935.

Yanowitz, Meyer, Chicago.—Physiology (I.II.); B.S., 1938.

Vesinick, Louis, Chicago.—Physiology (S.I.II.); B.S., University of Chicago, 1936; M.S., 1939.

Young, Viola Mae, Chicago.—Bacteriology (S.I.II.); B.S., Michigan State College, 1936.

Zabokrtsky, Helen, Oak Park.—Bacteriology (I.); A.B., 1938.

Zeldes, Mary, Galesburg.—Pathology (II.); A.B., Knox College, 1932; M.D., 1937.

Zitman, Irving Herman, Chicago.—Physiological Chemistry (I.); B.S., 1937.

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